THE ARCHITECTS' JOURNAL



standard contents

every issue does not necessarily contain all these contents, but they are the regular features which continually recur

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Details of Planning, Construction, Finishes and Costs
Buildings in the News
Building Costs Analysed

Architectural Appointments Wanted and Vacant

No. 3444] [Vol. 133

THE ARCHITECTURAL PRESS

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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their addresses and telephone numbers. The glossary is published in two parts—A to Ii one week, Il to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: J. H. Holden, College of Art, Cavendish Street, Manchester 15	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Langham 5533
ABT	Association of Building Technicians. 156, Waterloo Road, S.E.1.	Waterloo 5427/8
ACGB	Arts Council of Great Britain. 4, St. James's Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Langham 5861
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Langham 5721
BASA	British Architectural Students Association. Building Centre, 26 Store Street, W.C.1.	
BC	Building Centre, 26, Store Street, Tottenham Court Road, W.C.1.	Museum 5400
BCC	British Colour Council. 13, Portland Square, W '	Welbeck 4185
BCCF	British Cast Concrete Federation. 105, Uxbridge Road, Ealing, W.5.	Ealing 9621
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 10, The Boltons, S.W.10.	Fremantle 8494
BE	Building Exhibition. 11, Manchester Square, W.1.	Hunter 1951
BEDA	British Electrical Development Association, 2, Savoy Hill, W.C.2.	Temple Bar 9434
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BOT	Board of Trade. Whitehall Gardens, Horseguards Avenue, S.W.1.	Trafalgar 8855
BRS	Building Research Station. Bucknalls Lane, Watford.	Garston 4040
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. British Standards House, 2, Park St., W.1.	Mayfair 9000
CABAS	City and Borough Architects Society. C/o S. A. G. Cook, A.R.I.B.A., Borough Architect and Director of Housing, Town Hall, High Holborn, W.C.1.	Holborn 3411
CAS	County Architects' Society. C/o J. Hurst, A.R.I.B.A., County Hall, Dorchester.	
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W 1.	Belgravia 6661
CDA	Copper Development Association. 55 South Audley Street, W.1.	Grosvenor 8811
COID	Council of Industrial Design. 28, Haymarket, S.W.1.	Trafalgar 8000
CPRE	Council for the Preservation of Rural England, 4, Hobart Place, S.W.1.	Sloane 4280
CUC	Coal Utilization Council. 3, Upper Belgrave Street, S.W.1.	Sloane 9116
DIA	Design and Industries Association. 13, Suffolk Street, S.W.1.	Whitehall 0540
EJMA	English Joinery Manufacturers' Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Regent 4448
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	
FAS	Faculty of Architects and Surveyors. 68, Gloucester Place, W.1.	Welbeck 9966
FASS	Federation of Associations of Specialists and Sub-Contractors, 14, Bryanston Street, W.1.	Welbeck 1781
FBBDO	Fibre Building Board Development Organization Ltd. (Fidor), Stafford House, Norfolk Street, W.C.2.	Covent Garden 3008
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savile Row, W.1.	Regent 0221
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	Flush Door Manufacturers Association Ltd. Trowell, Nottingham.	Ilkeston 623
FLD	Friends of the Lake District. Pennington House, nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders. 33, John Street, W.C.1. Tel.: Chancery 7583 (6 lines)	
FPC	Federation of Painting Contractors, St. Stephen's House, S.W.1.	Whitehall 3902
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Langham 4341
GPDA	Gypsum Plasterboard Development Association. 11, Ironmonger Lane, E.C.2.	Monarch 8888
GC	Gas Council. 1, Grosvenor Place, S.W.1.	Belgravia 4321
GG	Georgian Group. 2, Chester Street, S.W.1.	Belgravia 3081
HC	Housing Centre. 13, Suffolk Street, S.W.1.	Whitehall 2881
IAAS	Incorporated Association of Architects and Surveyors. 29, Belgrave Square, S.W.1	Belgravia 3755
ICA	Institute of Contemporary Arts. 17-18, Dover Street, W.1.	Grosvenor 6186
ICE	Institution of Civil Engineers. 1, Great George Street, S.W.1.	Whitehall 4577
IEE	Institution of Electrical Engineers. Savoy Place, Victoria Embankment, W.C.2.	Covent Garden 1871
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1.	Sloane 8266
IHVE	Institution of Heating and Ventilating Engineers. 49, Cadogan Square.	Sloane 1601/3158
IIBDID	Incorporated Institute of British Decorators and Interior Designers. 37, Soho Square, W.1.	Gerrard 5056



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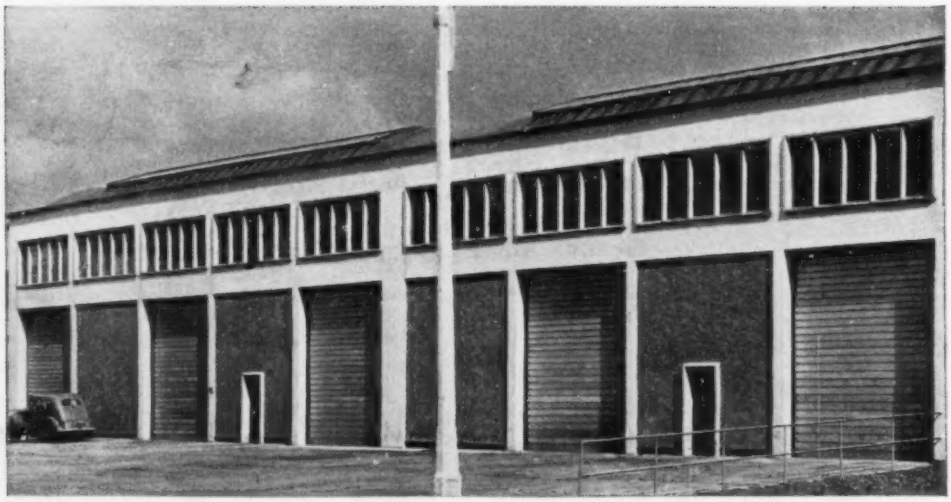
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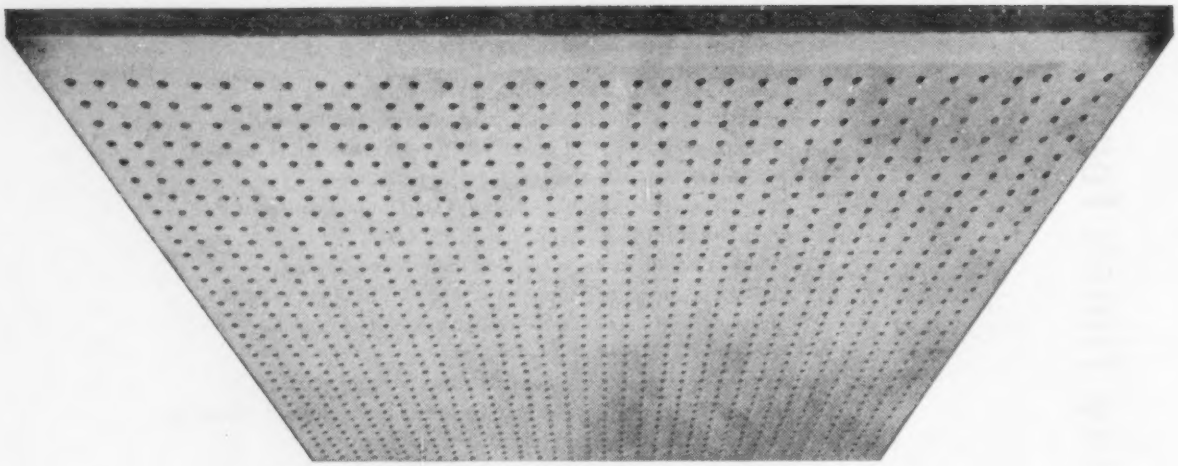
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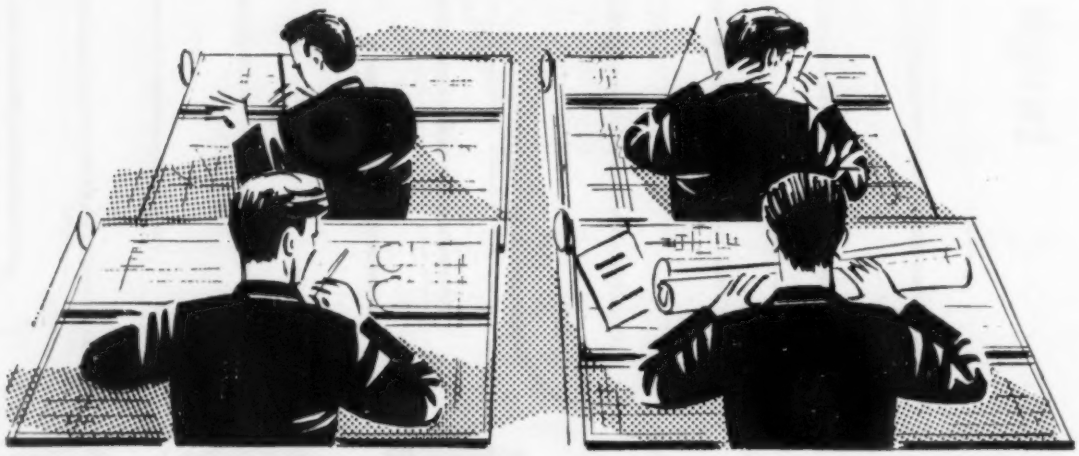
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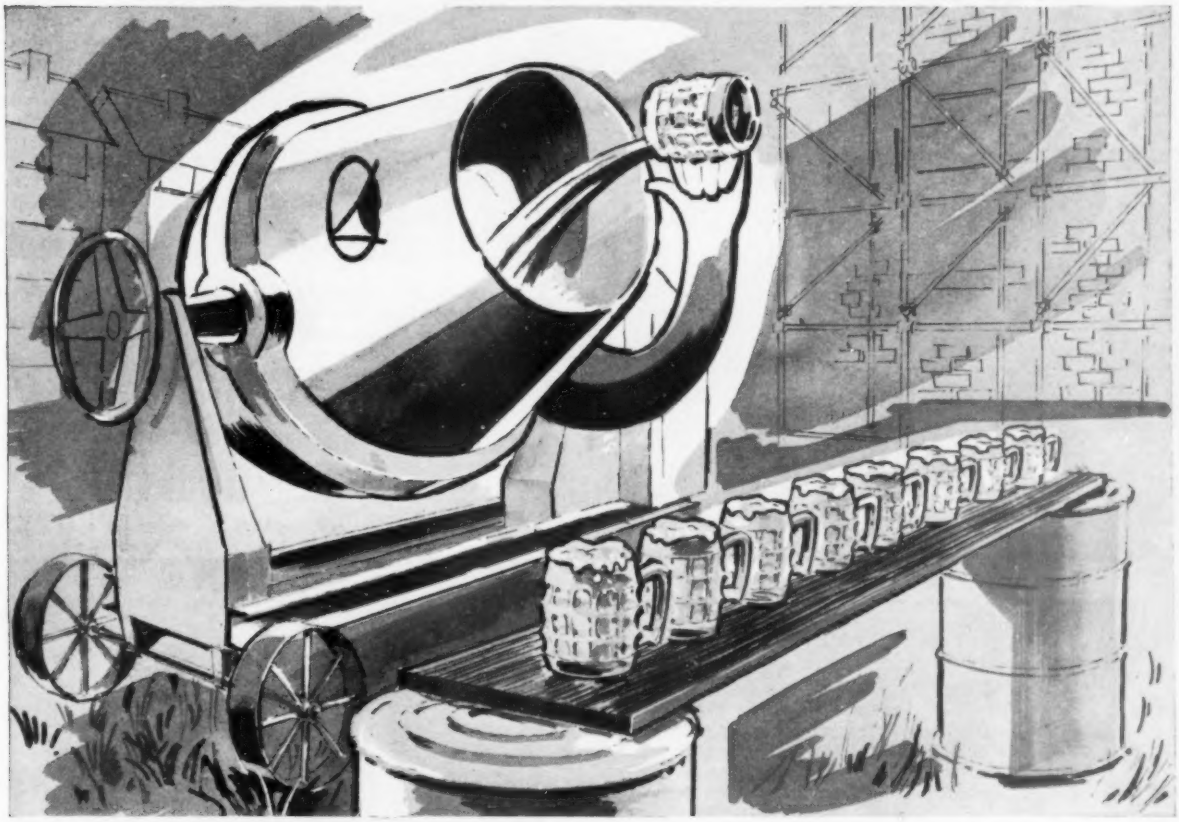
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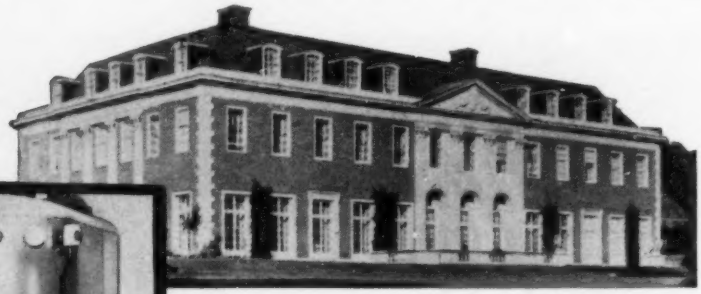
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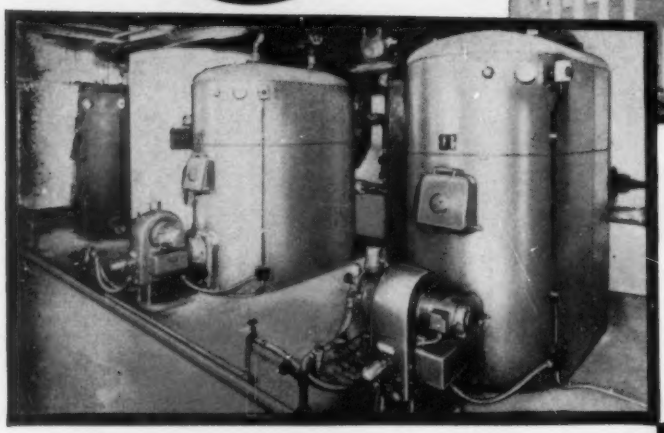
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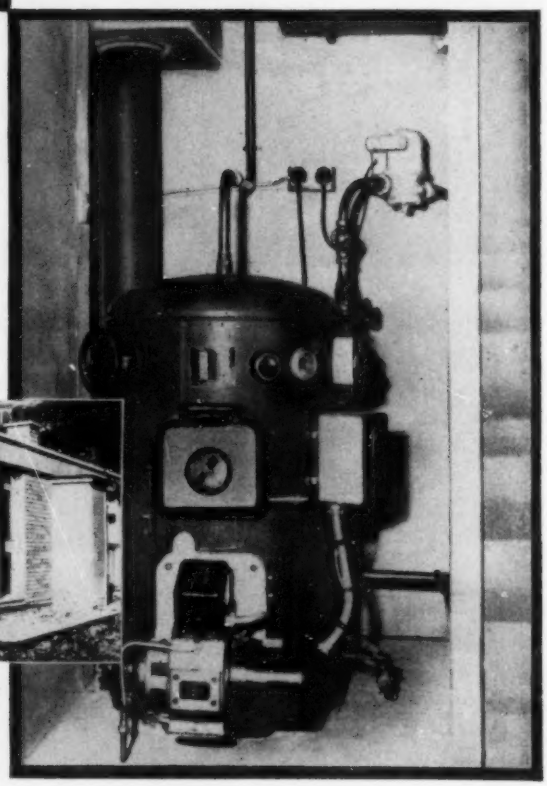
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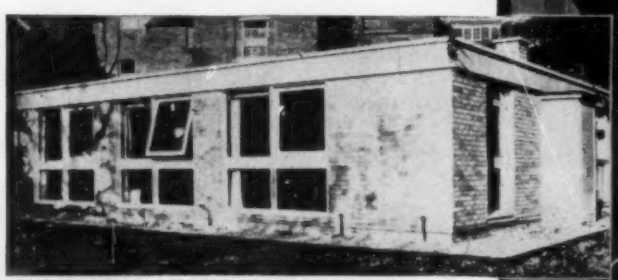




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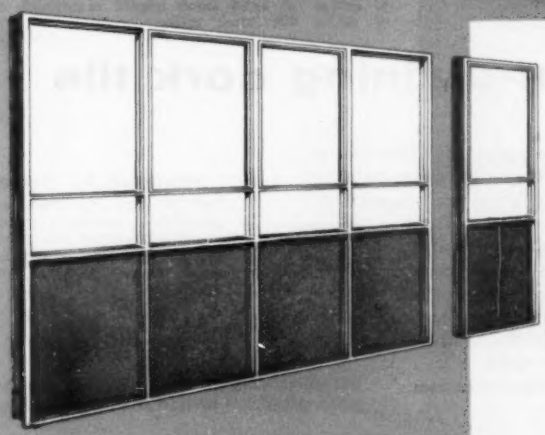
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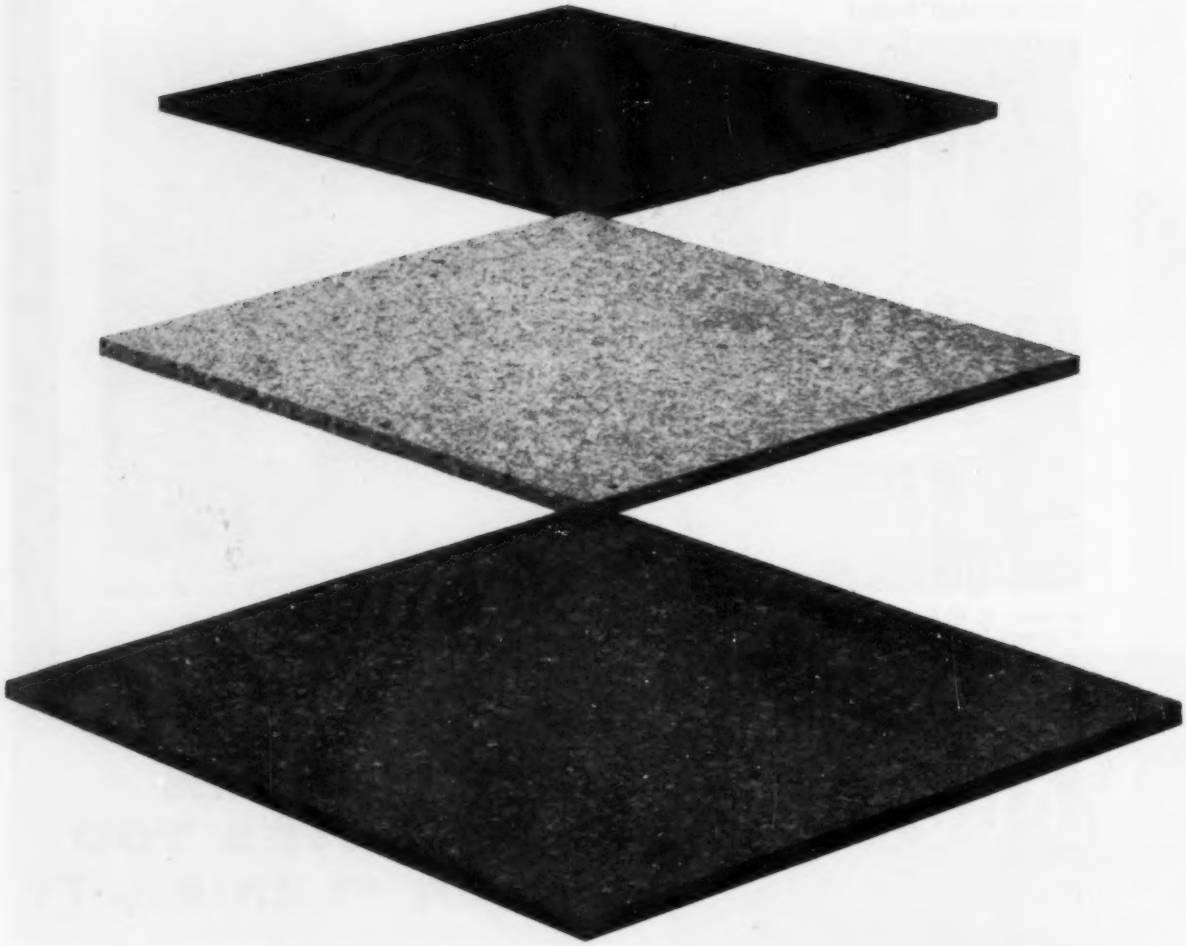
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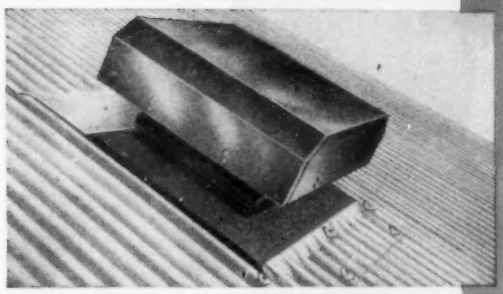
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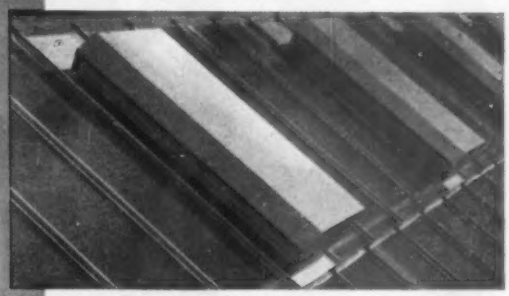
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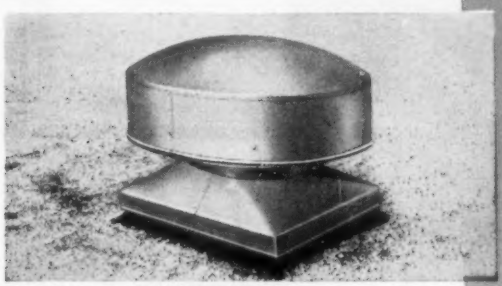
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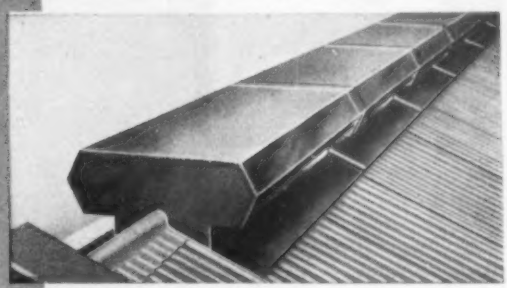
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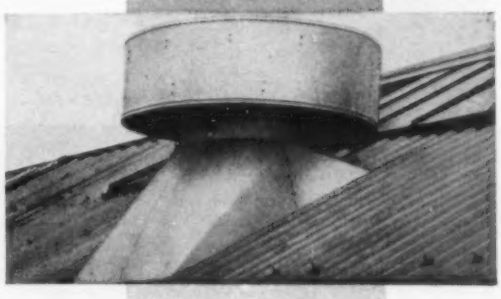
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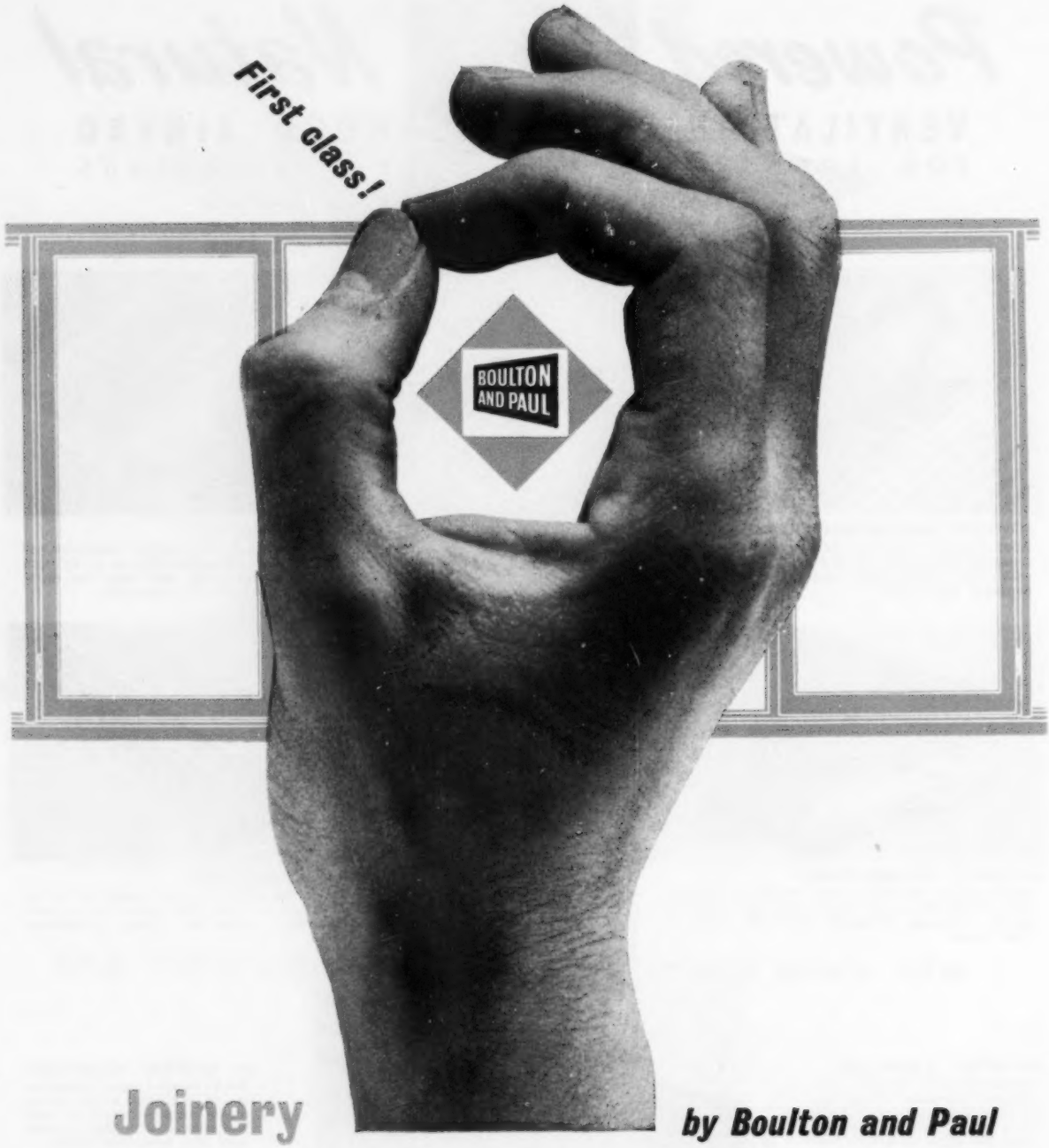
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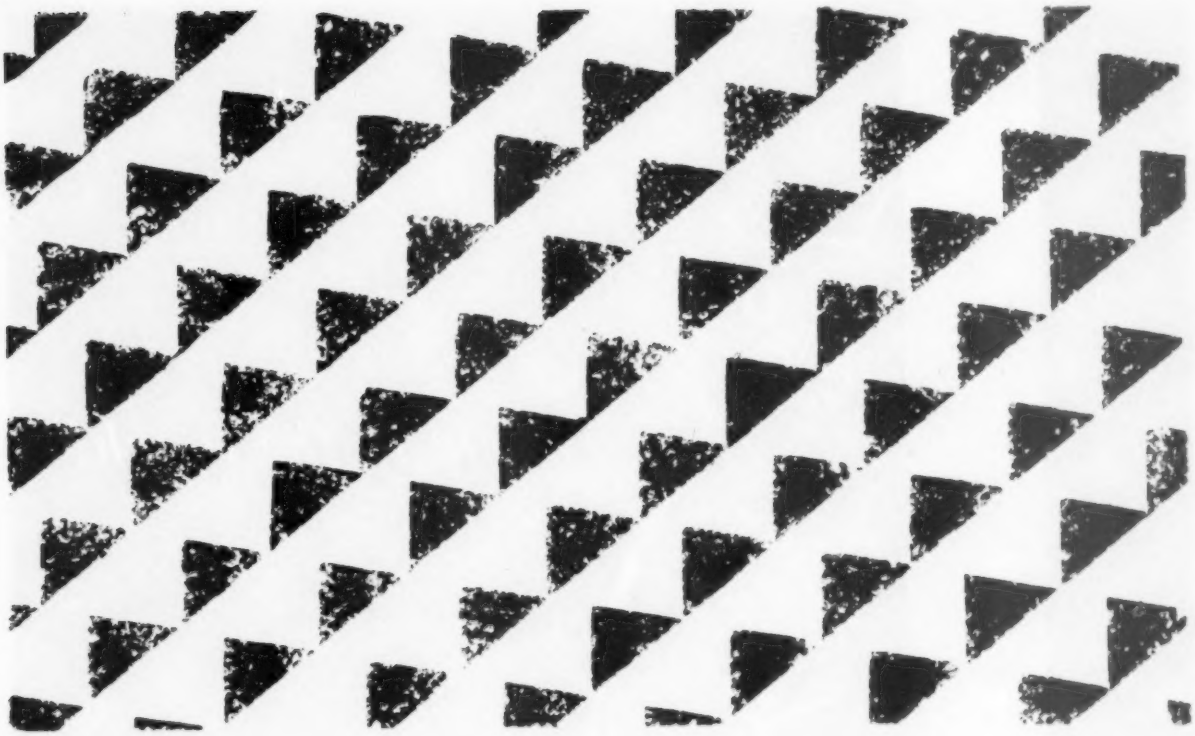


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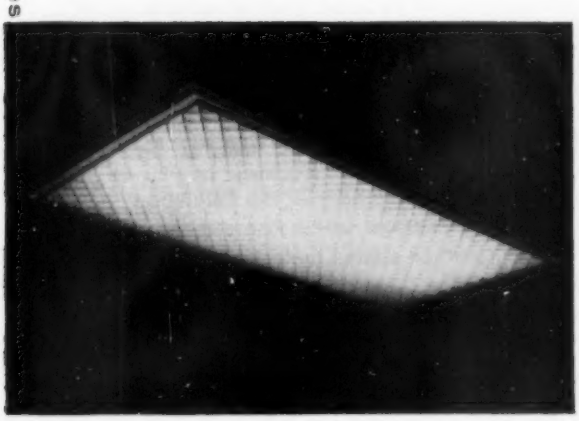
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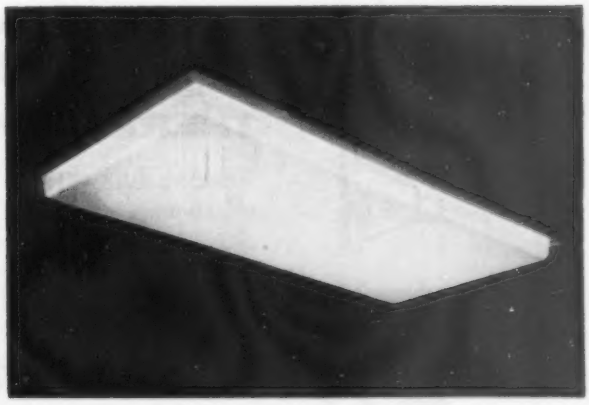


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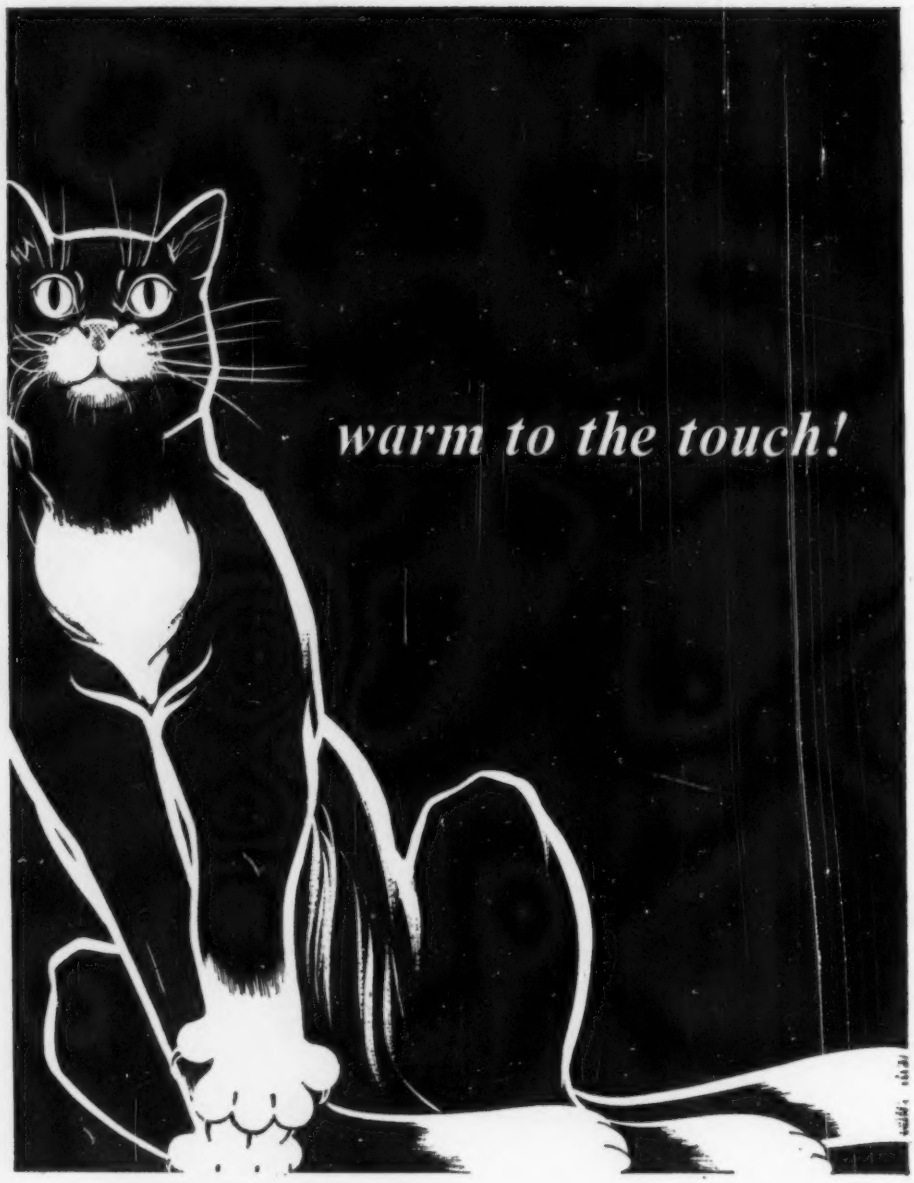


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AIRLITE



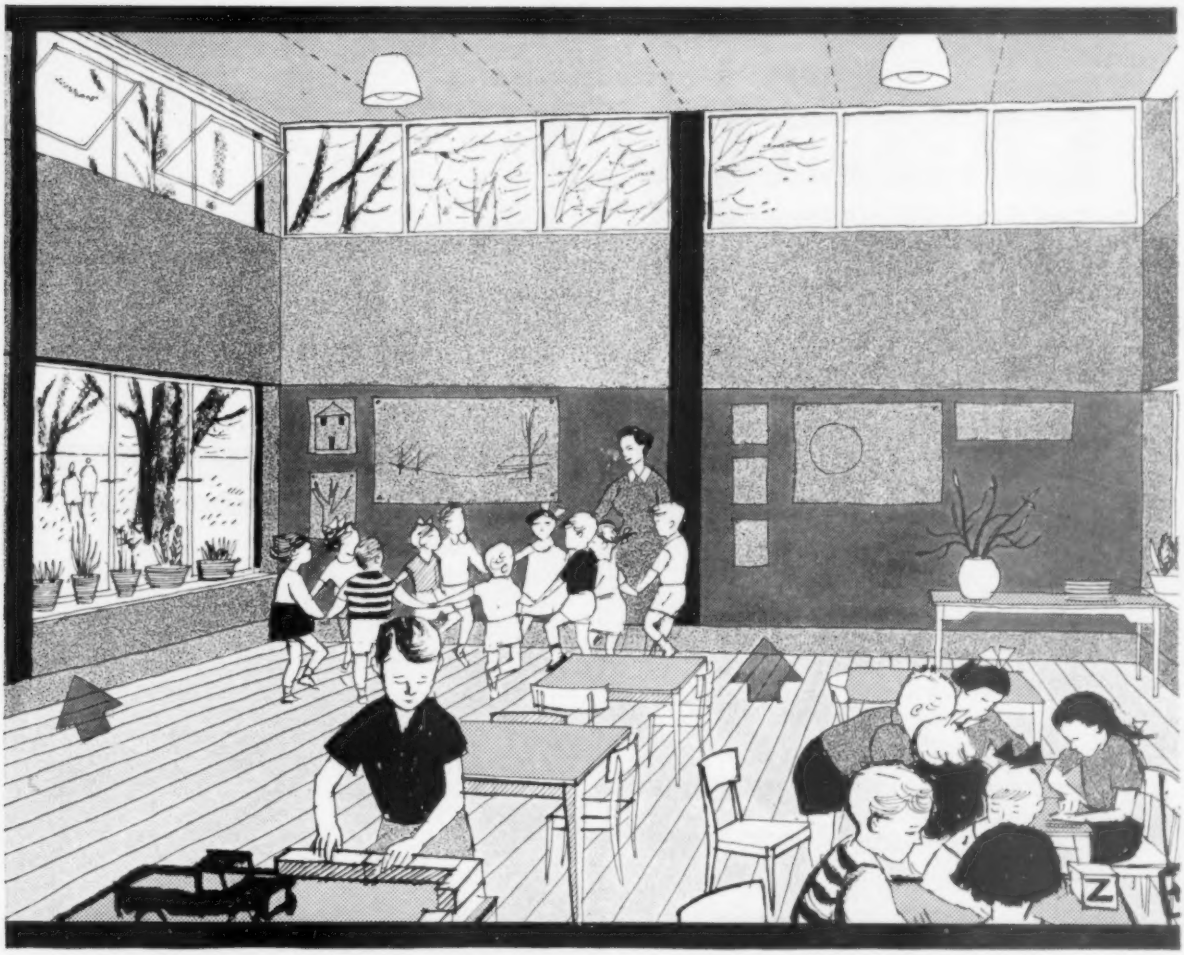
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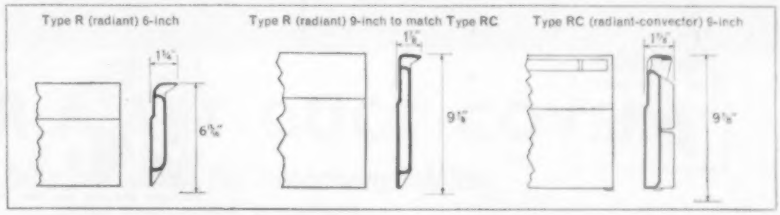


When warmth must be distributed fairly

One of the important factors in education being the primary comfort and well-being of the children, it is essential, amongst other things, that the schoolroom should be evenly and equably heated. The young occupants are normally well distributed throughout what is generally a large room: the warmth should be spread equally impartially. It was for just such a situation as this that the Crane Skirting Heating system was evolved.

Crane Skirting Heating employs heating panels in place of the normal skirting boards. These panels are unobtrusive; they avoid 'hot spots'; they are easy to clean; they permit freedom of arrangement and design; and—of special significance in this case—they offer no dangerous protuberances. In the illustration above, the panels are indicated by arrows.

3 types of Crane Skirting Heating *Type RC 9-inch is particularly suitable for installing beneath picture-windows and similar features, using elsewhere Type R 9-inch to match. Type R 6-inch meets smaller heat requirements. Panels are in 2-ft and 1-ft lengths and are made in cast iron for resistance to damage and corrosion.* ***Decoration;*** *this can be done after installation to suit any colour scheme*



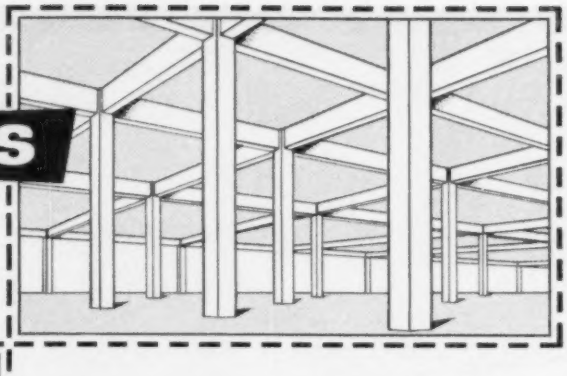
ZIGR

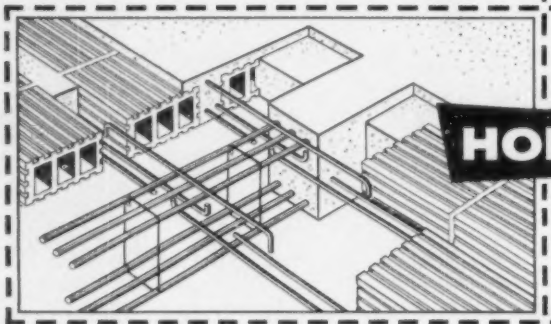
everything points to **CRANE** skirting heating

Crane Ltd., 15-16 Red Lion Court, Fleet Street, London, E.C.4. *London Showrooms:* 118 Wigmore St., London, W.1, and Great West Road, Brentford, Middlesex. *Branches:* Birmingham, Brentford, Bristol, Glasgow, Leeds, London, Manchester. *Works:* Halifax and Ipswich.

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and floors (in-situ construction)





HOLLOW-TILE FLOORS

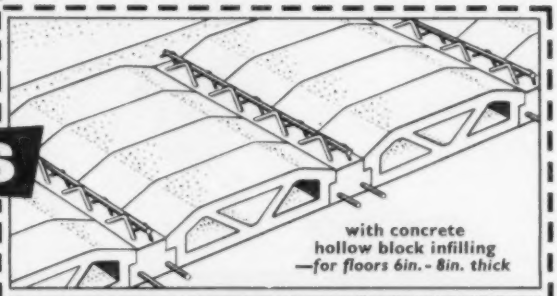
(in-situ construction)

TRIAD FLOORS

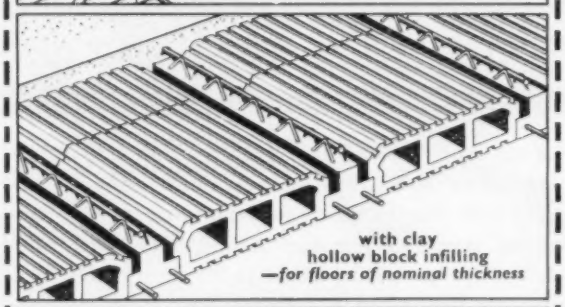
—a composite construction floor of precast inverted stub T-beams reinforced with a welded steel lattice with hollow block infilling of 3 types as illustrated— and an in-situ concrete topping

—requiring NO SHUTTERING.

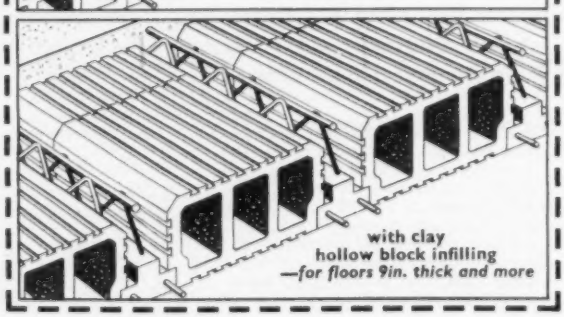
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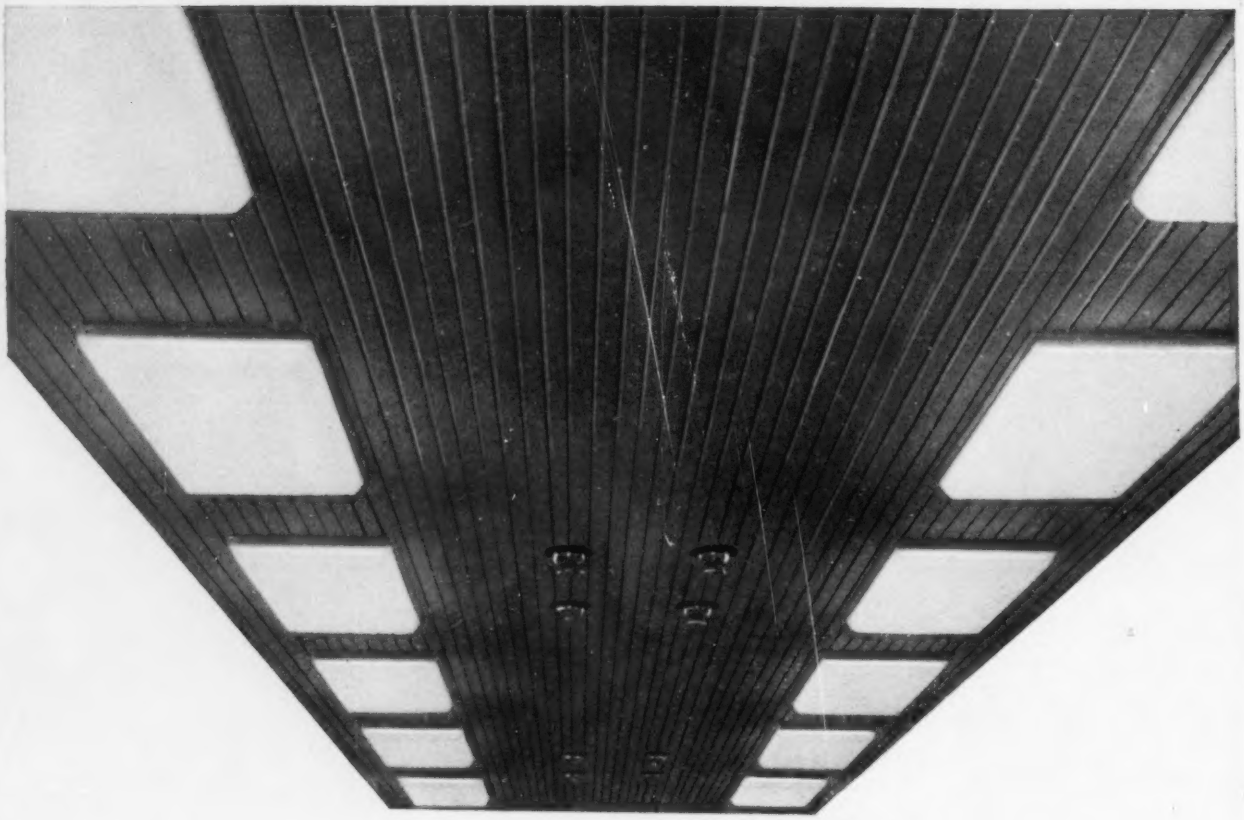
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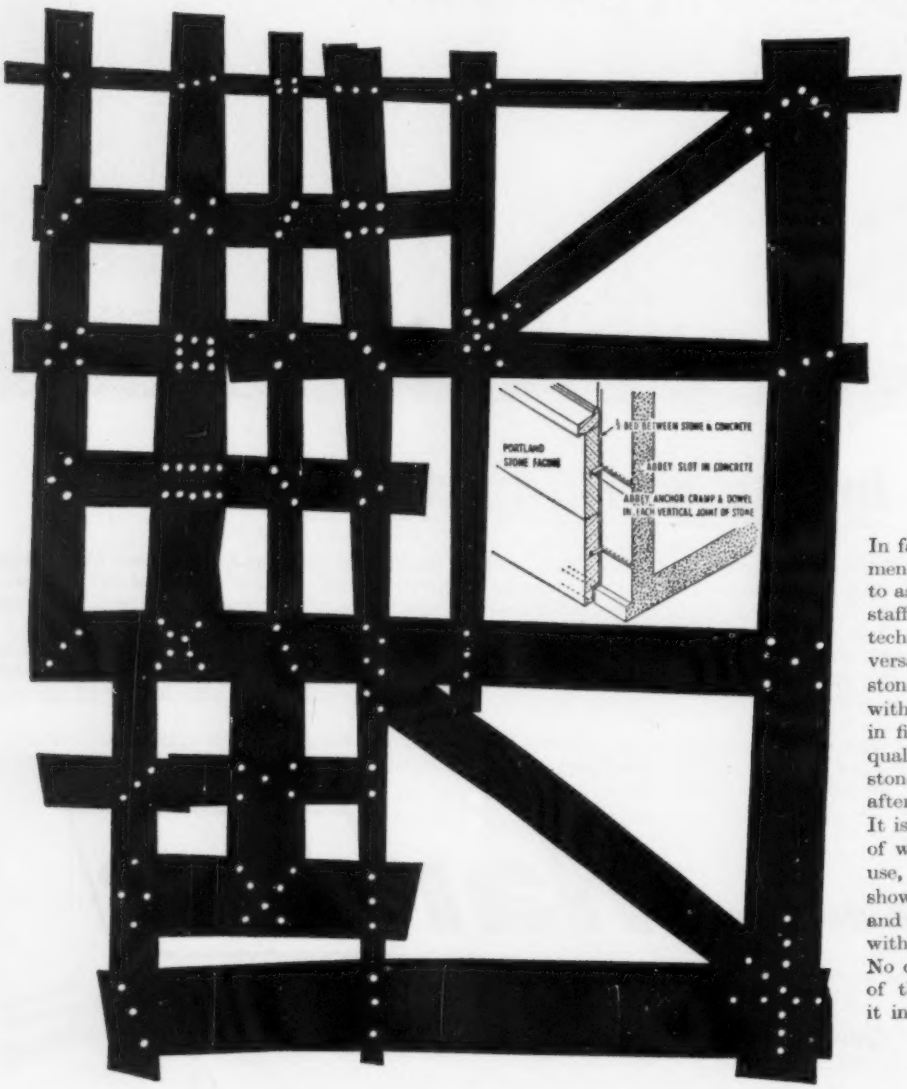
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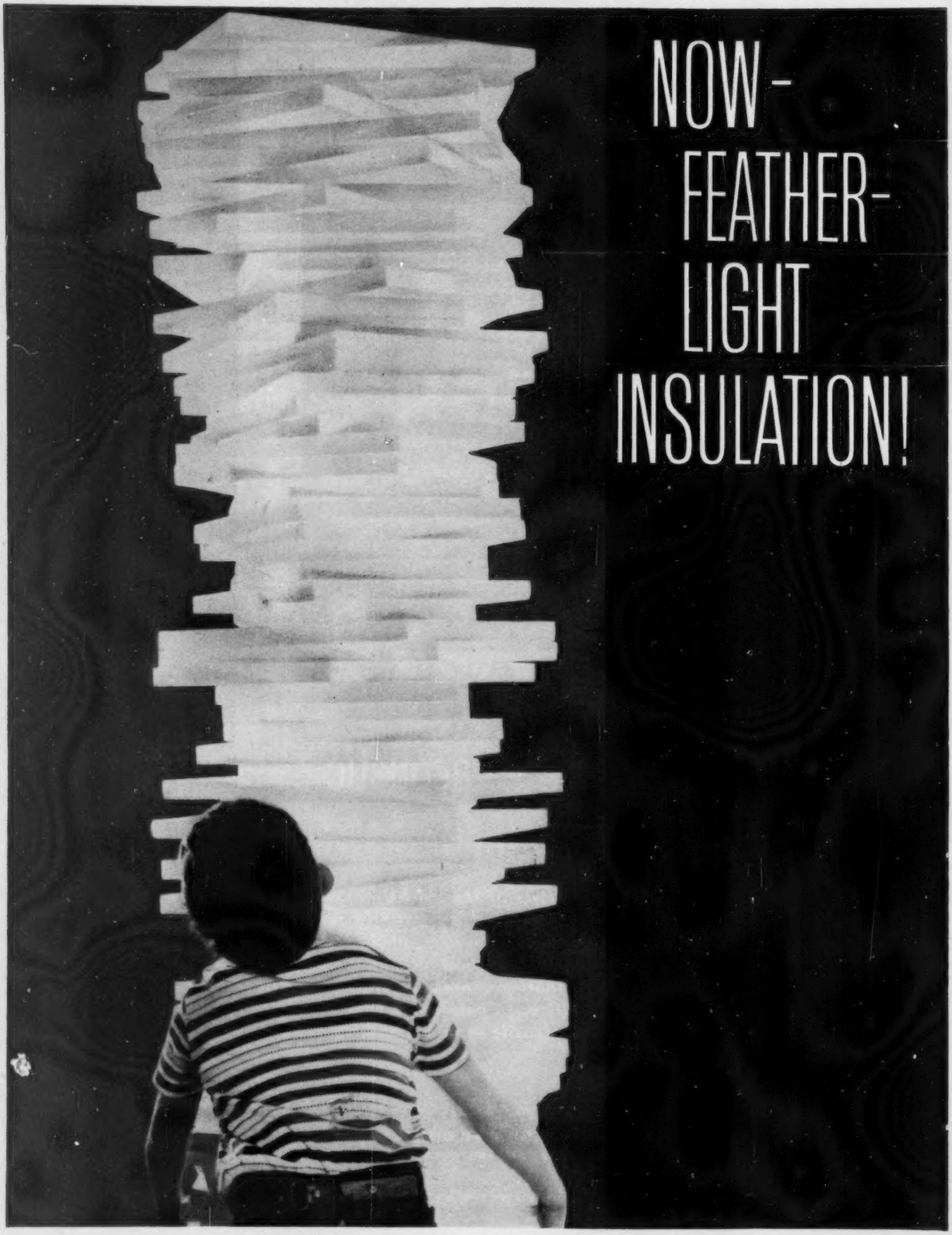
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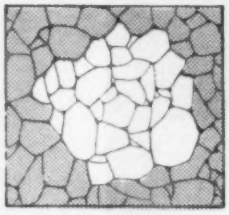
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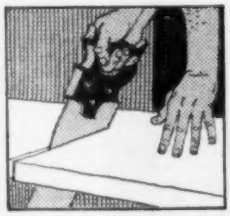
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This simple illustration explains the remarkable effectiveness of foamed polystyrene as an insulation material: transfer of heat is retarded by the thousands of air pockets in expanded polystyrene.



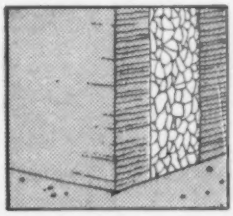
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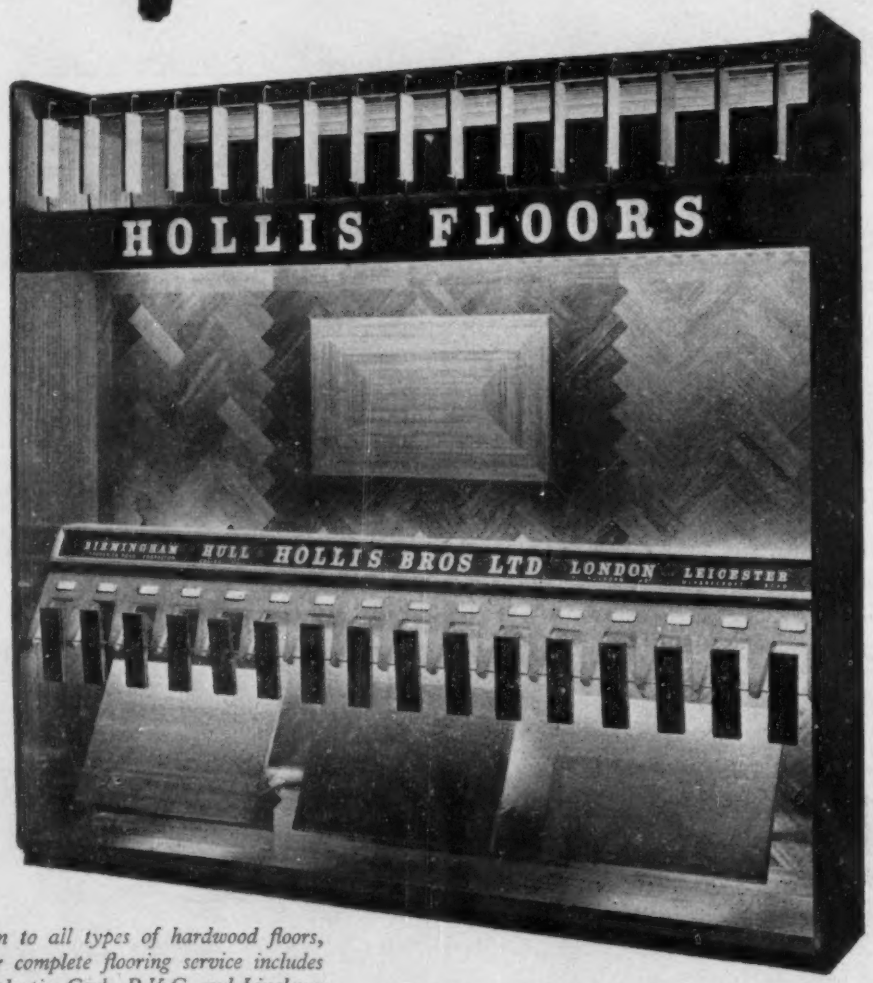


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photograph by courtesy of BP Trading Limited
Architects: Messrs. Joseph F. Milton Cashmore & Partners

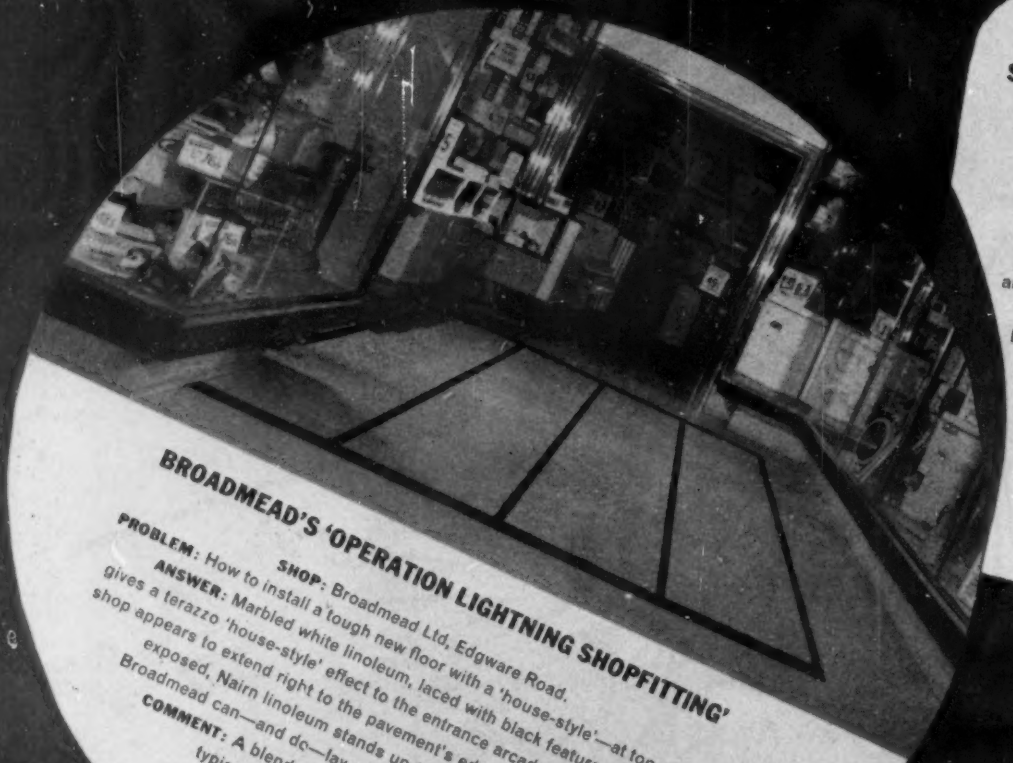
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SHOP: Broadmead Ltd, Edgware Road.
PROBLEM: How to install a tough new floor with a 'house-style'—at top speed.
ANSWER: Marbled white linoleum, laced with black feature strips, gives a terazzo 'house-style' effect to the entrance arcade, so that the open shop appears to extend right to the pavement's edge. Even here, completely exposed, Nairn linoleum stands up to the weather very well. Broadmead can—and do—lay a shop floor like this in 48 hours.
COMMENT: A blend of imagination and common sense typical of Broadmead (and Nairn, too).
FLOORING CONTRACTOR: THE LINO TILE CO

SHOPPING'S A WALKOVER AT INTERNATIONAL STORES

SHOP: International Stores, Croydon.
PROBLEM: Streamlined routes result in concentrated traffic—and concentrated wear.
ANSWER: Nairn linoleum in Royal Red and Blondwood, contractor-cut to make this vivid directional chequerboard. International Stores use 4.5 mm Nairn linoleum in many of their shops, and find it very hardwearing, despite the stab of female footwear.
COMMENT: In value for money, you can't beat Nairn linoleum.
ARCHITECT: W. J. LEE, LRIBA, ARICS
FLOORING CONTRACTOR:
LEWIS BROS (KING'S CROSS) LTD



SMITH'S PUT WELCOME ON THE FLOOR

SHOP: W. H. Smith, Ealing.
PROBLEM: To make part of an extremely large shop look friendly and pleasant.
ANSWER: Lay (contractor-cut) Nairn lino tiles from wall to wall, with red and yellow tiles scattered at random. The architect has used Nairn linoleum on this floor to give the record bar a relaxed, 'linger-awhile' feeling.
COMMENT: Nairn linoleum is for looking at as well as walking on.
ARCHITECT: H. F. BAILEY, RIBA
FLOORING CONTRACTOR:
THE LINO TILE CO

THE ARCHITECTS' JOURNAL
(Supplement) April 20, 1961

shop flooring–



Four shops, four problems, four solutions— with Nairn linoleum

You see here four widely different shops: a fast-moving, hard-selling, electrical goods shop; a quiet and dignified wallpaper showroom; the browse-worthy record bar of a bookstore; and a streamlined supermarket. In each case, the floor poses a different problem—and in each case Nairn linoleum provides the solution.

A LONG LIFE—AND A CLEAN ONE

You'll see the detailed hows and wheres of these solutions beside each picture. The two big reasons why so many architects specify Nairn linoleum for shop floors are its long life and its ease of maintenance. Nairn linoleum is extraordinarily hardwearing: one store laid Nairn lino tiles at the head and foot of its escalators four years ago, and today—forty million hard-walking customers later—the floor is still in good condition. When it comes to maintenance costs, Nairn linoleum can save you up to one third as against thermoplastic floors.

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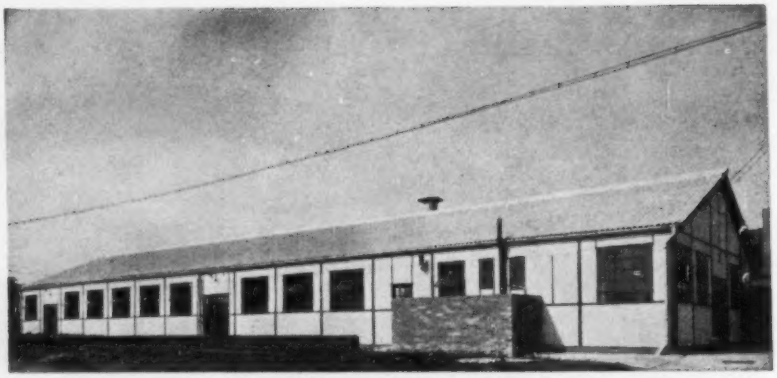
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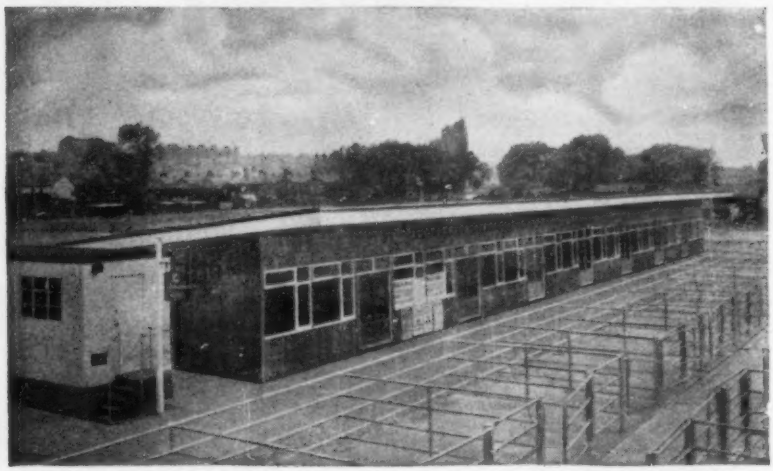
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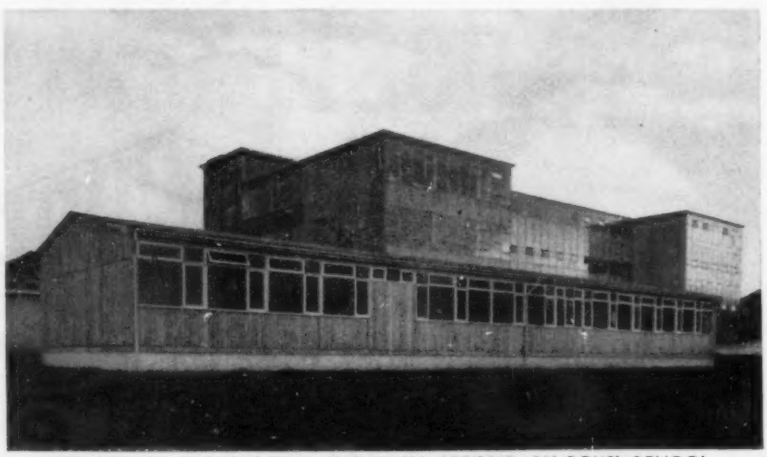
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TIMBER FRAMED FACTORY CANTEEN
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TEMPORARY SERVICES BLOCK, 150ft. by 30ft. for Salisbury Cattle Market.
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TEMPORARY CLASSROOMS, SPEEDWELL SECONDARY BOYS' SCHOOL.
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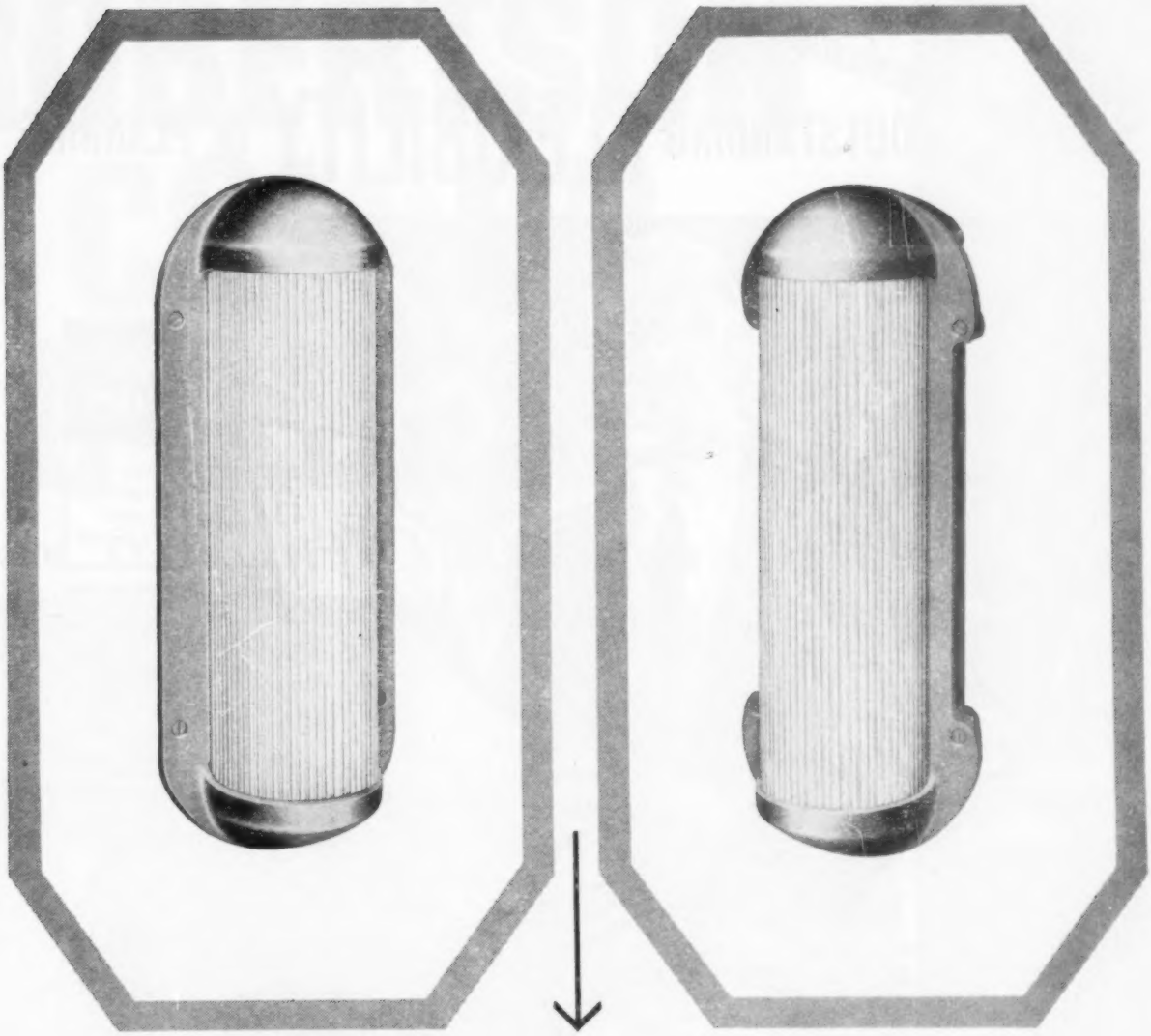
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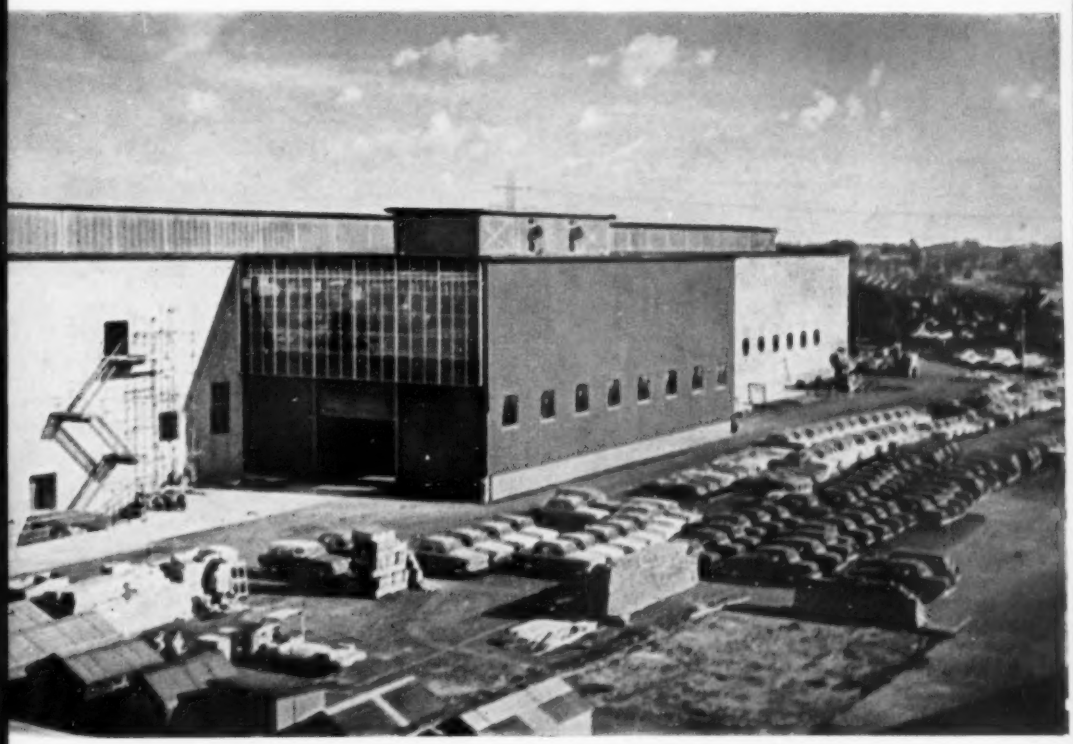
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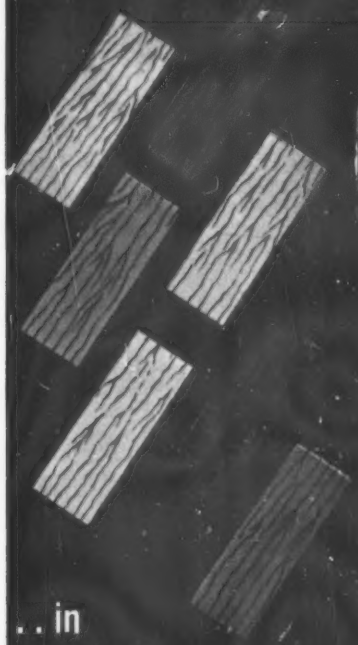
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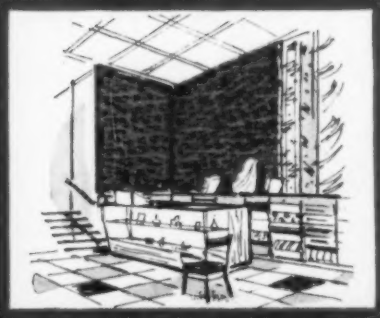
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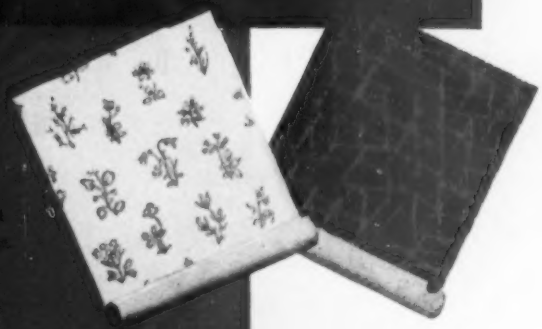
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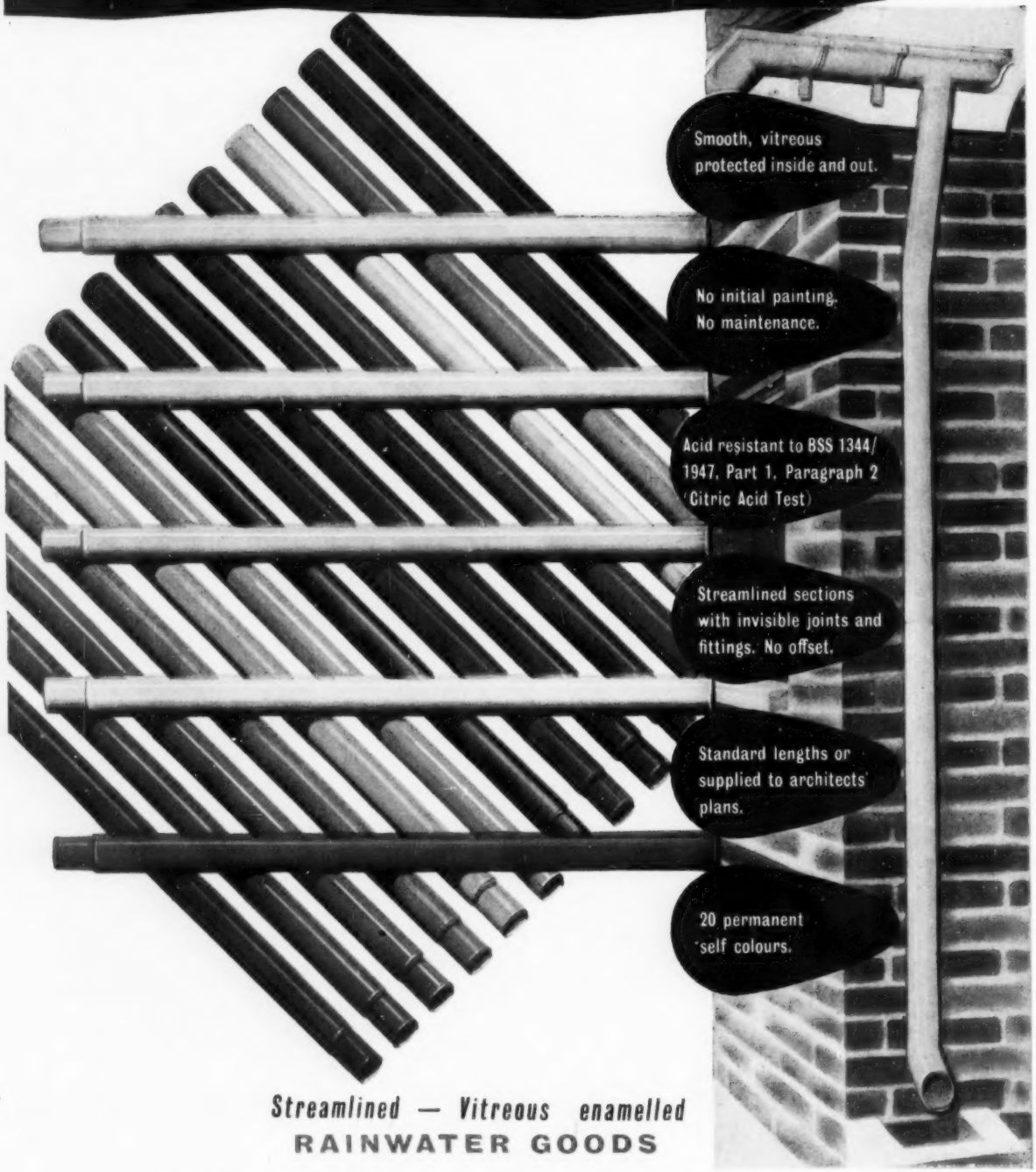
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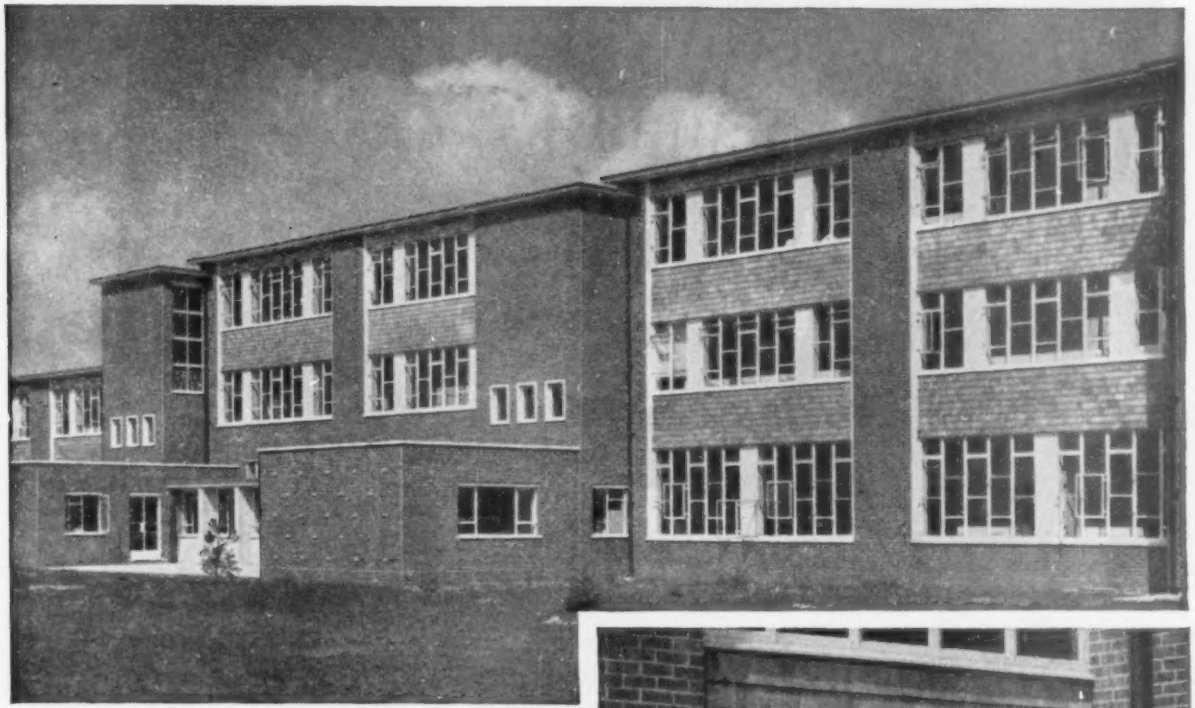
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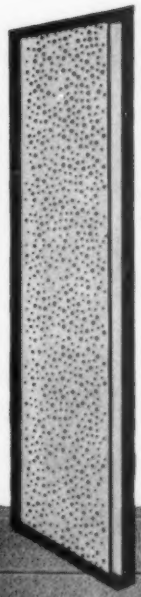
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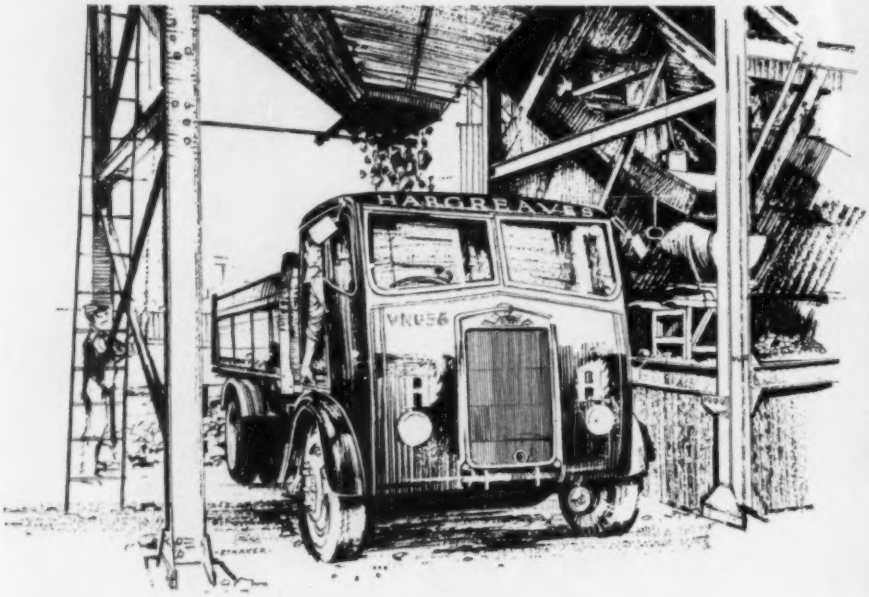
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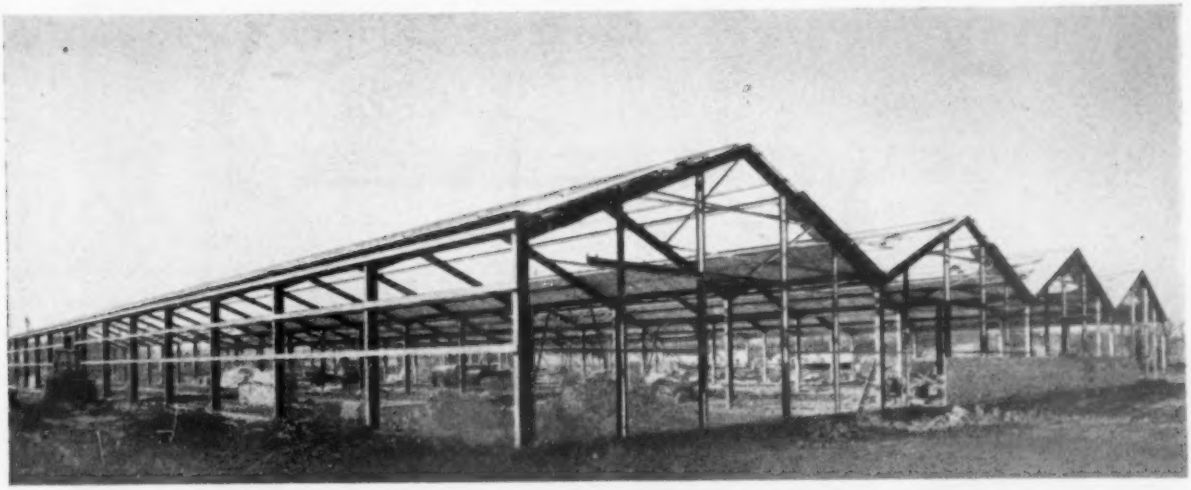
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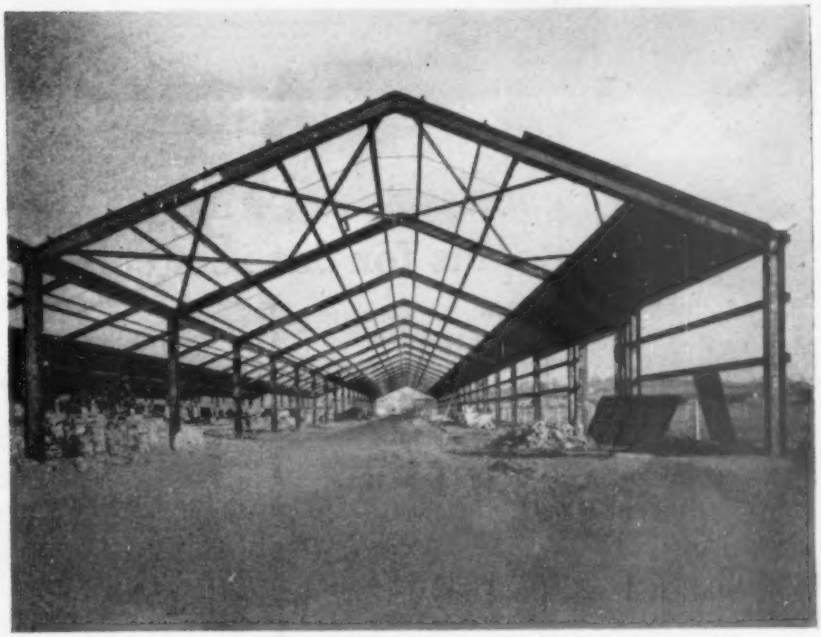
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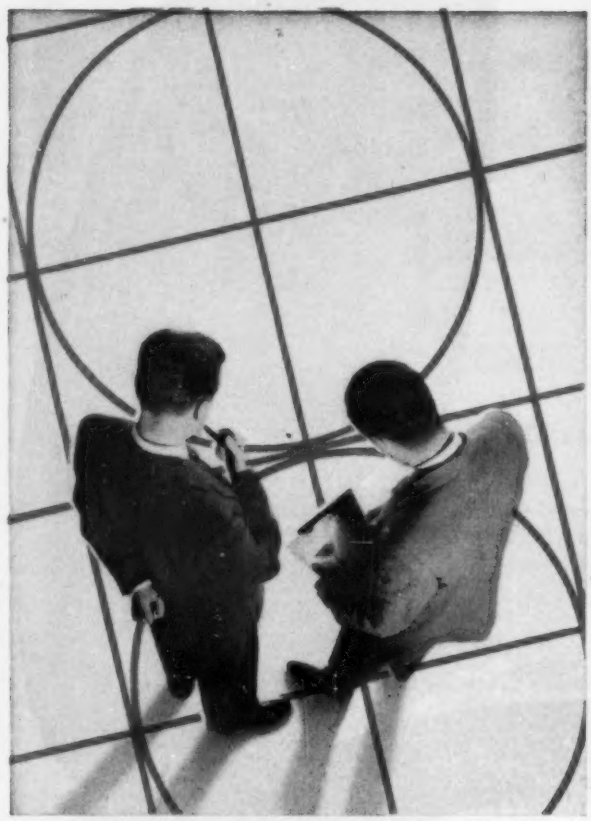
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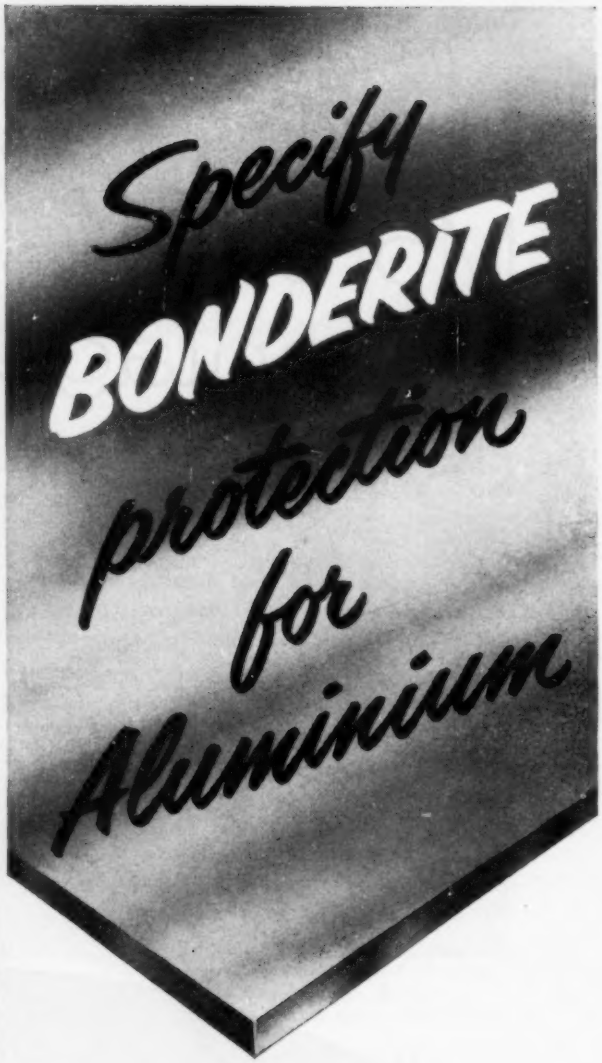
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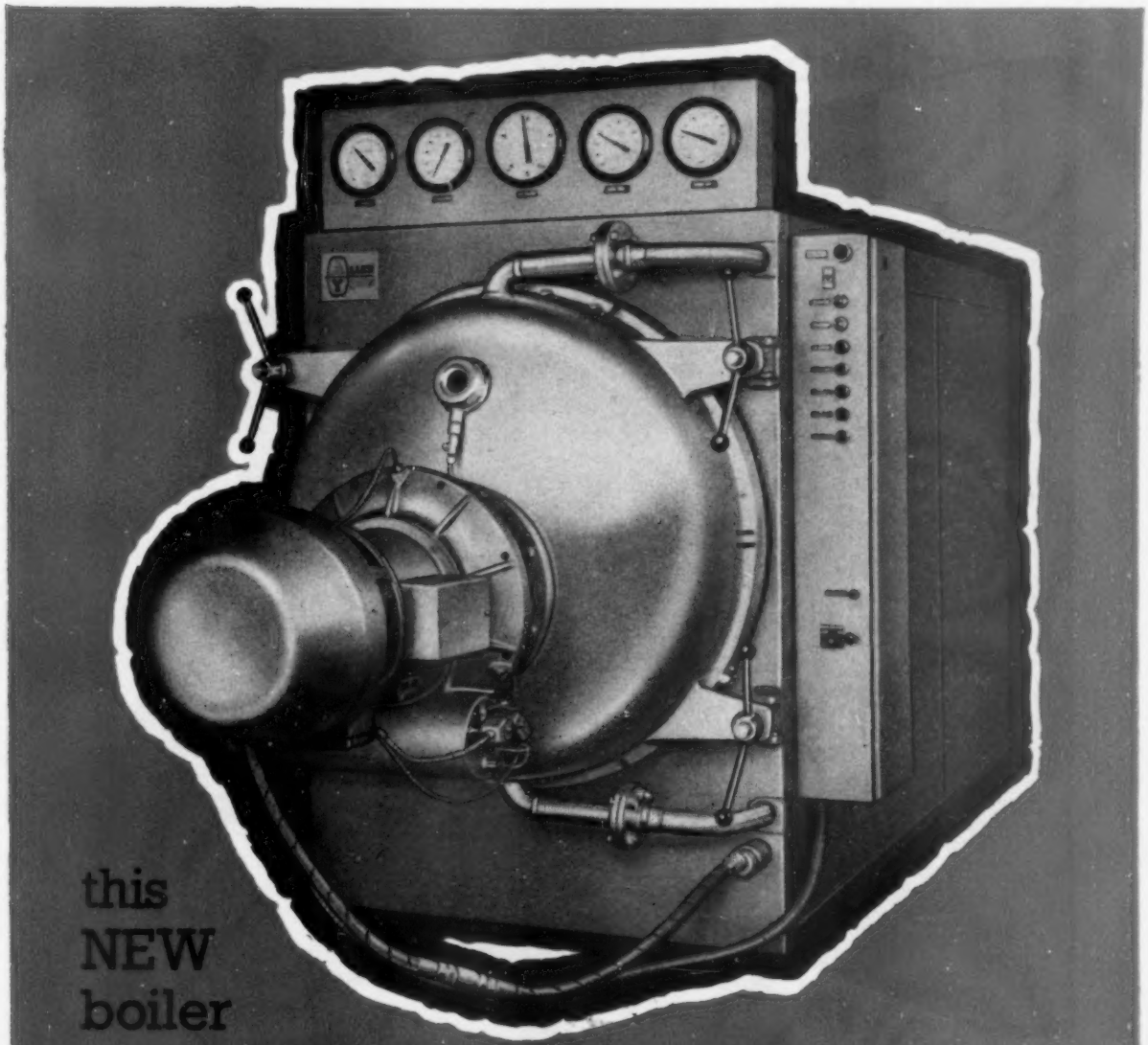
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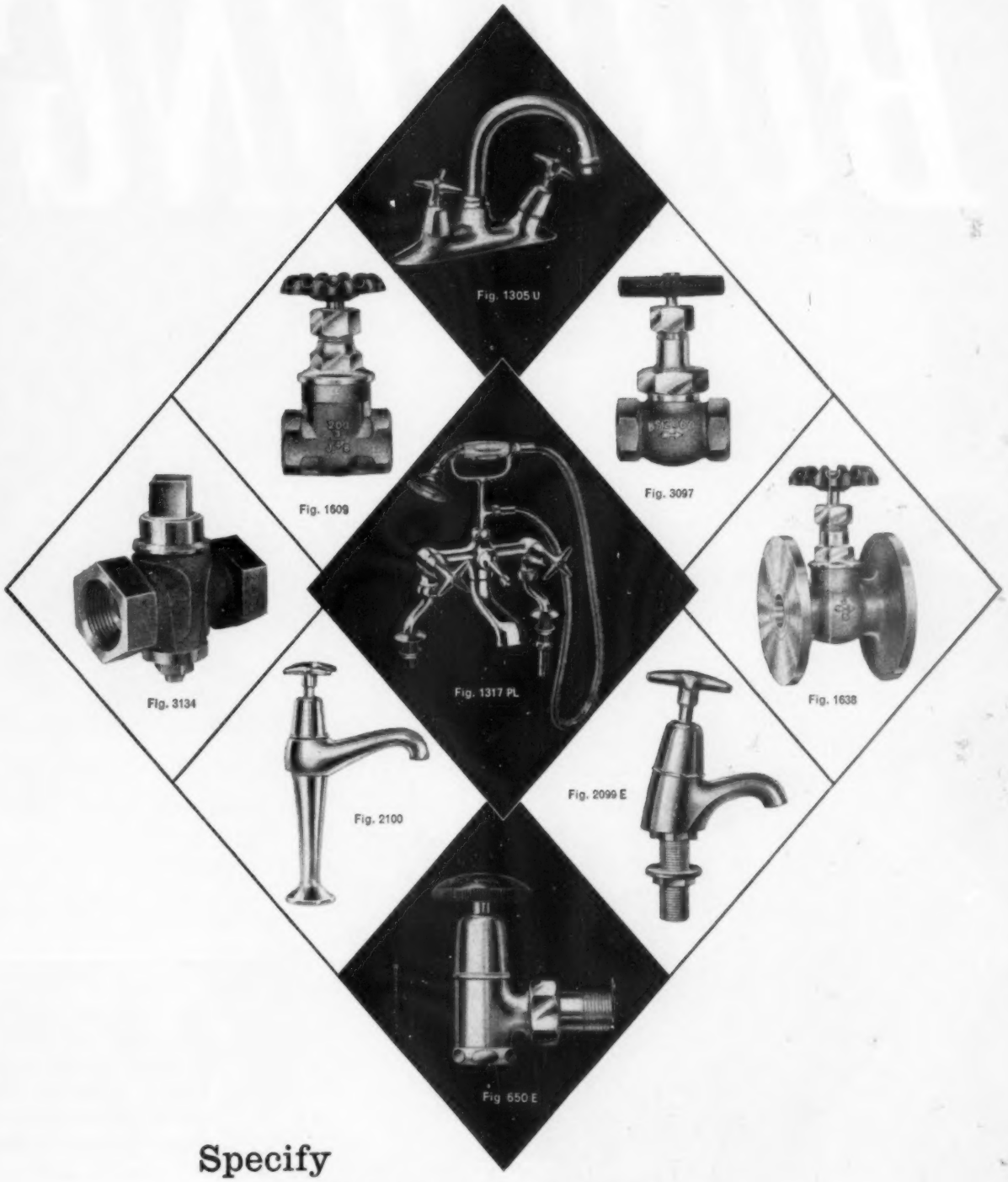
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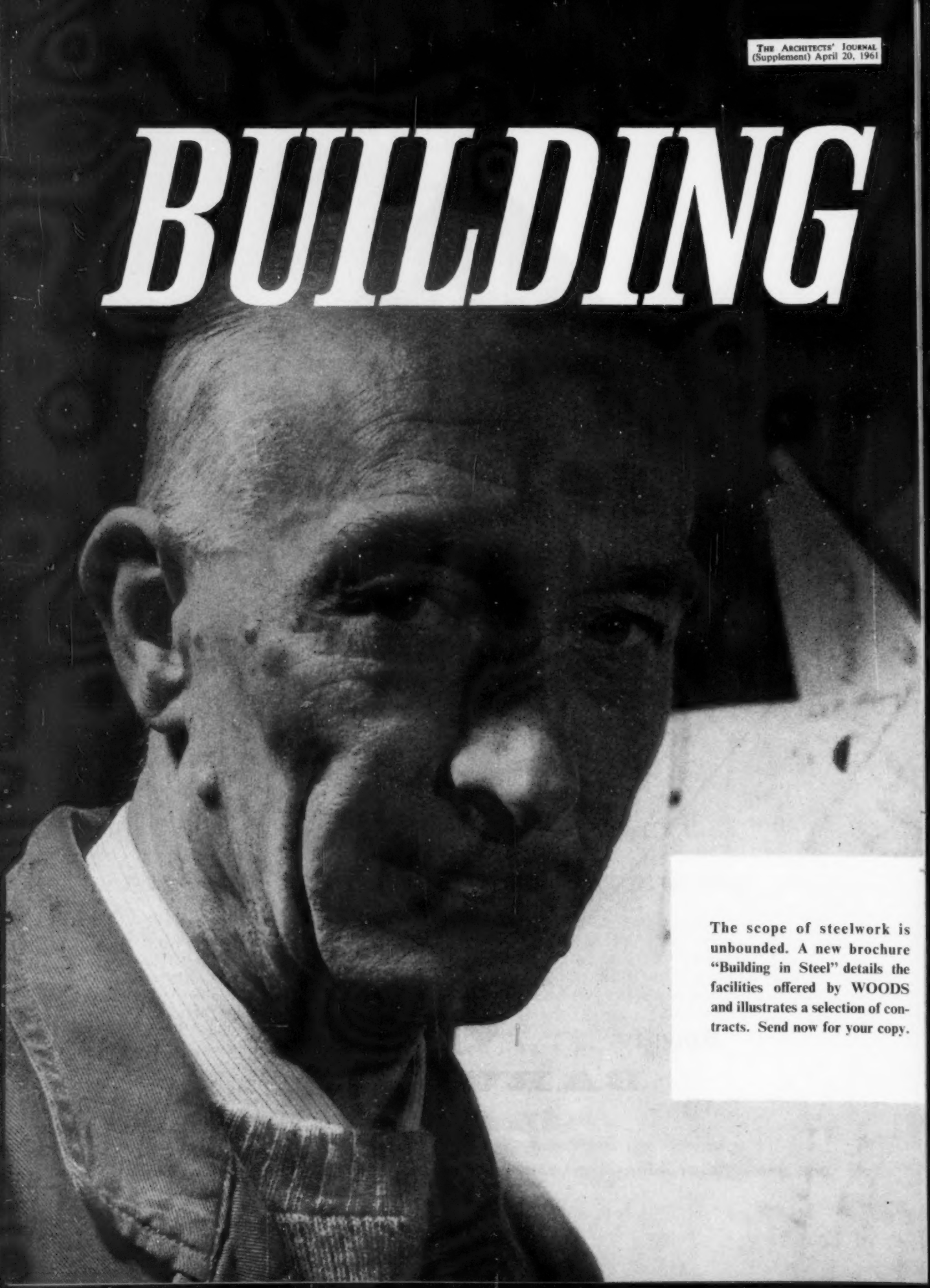
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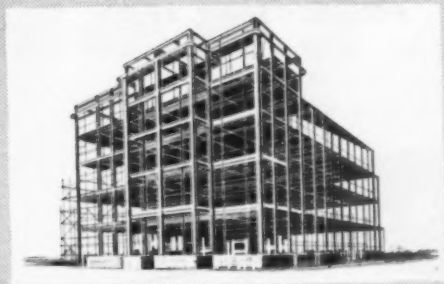
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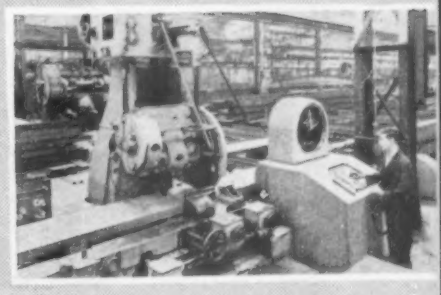
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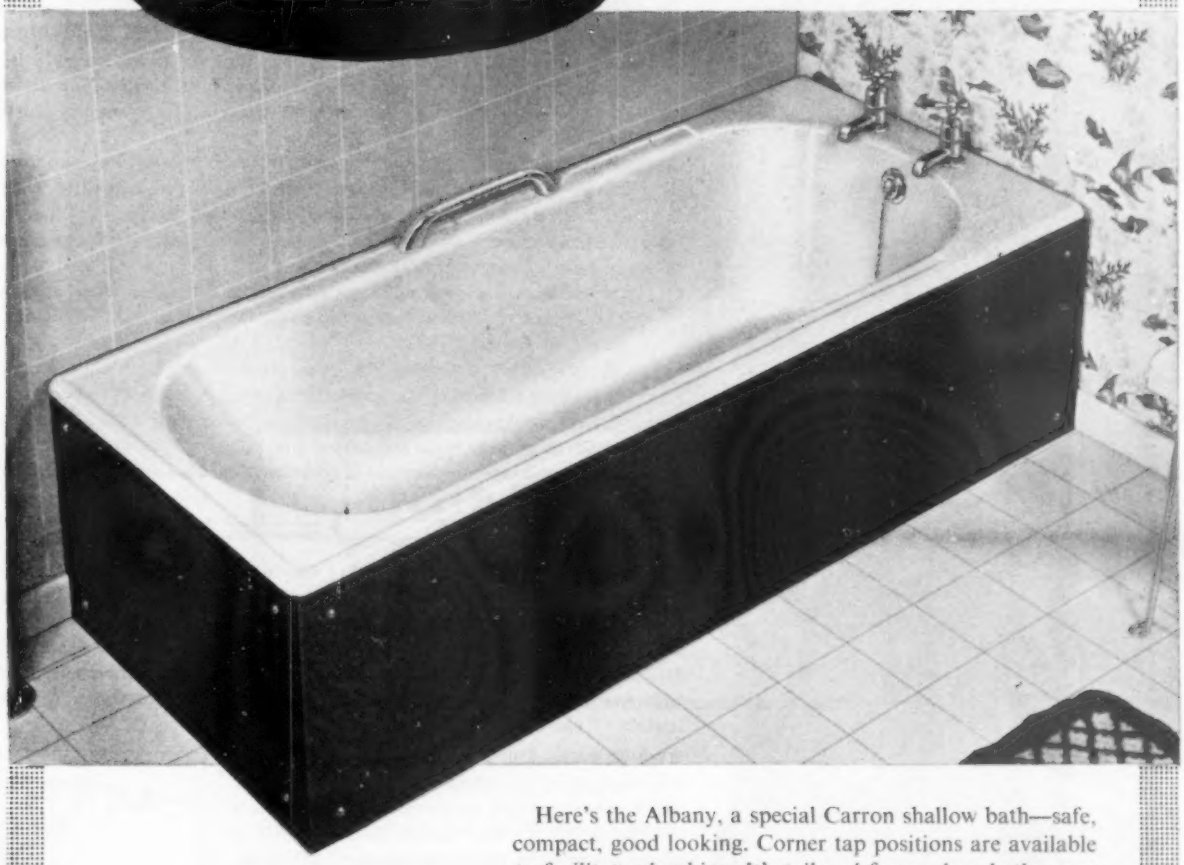
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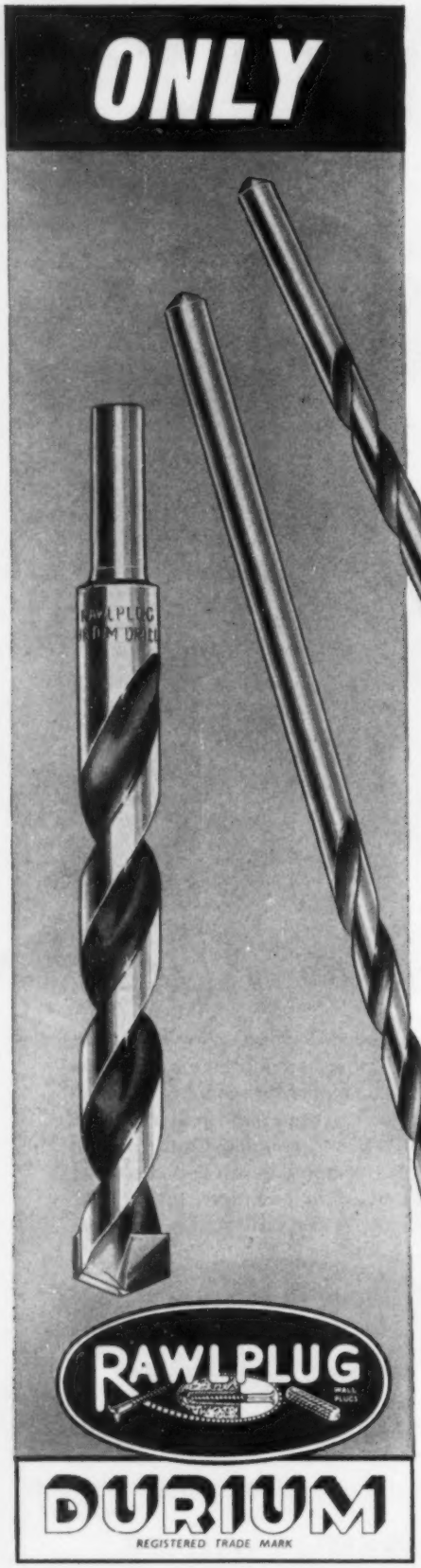
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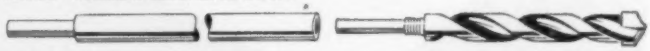
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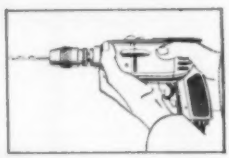
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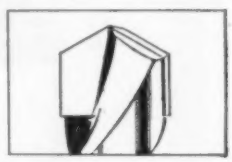
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Atlas Insulation board



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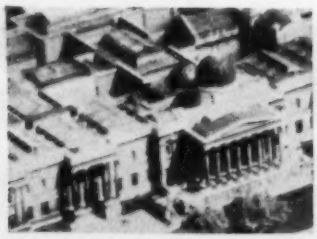
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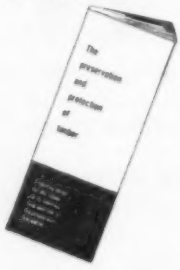
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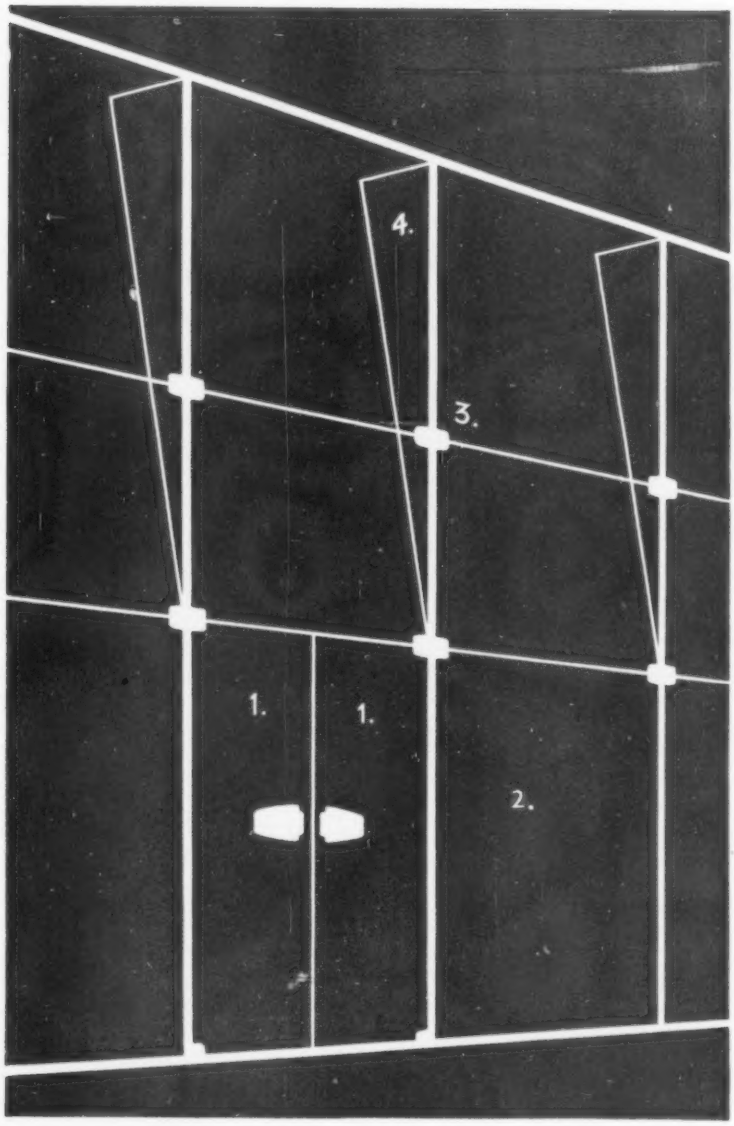
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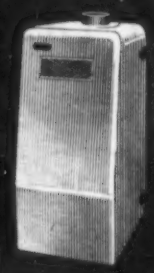
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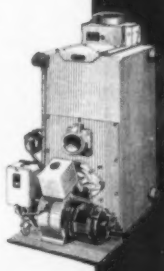
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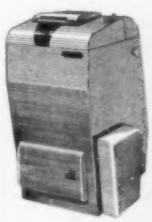
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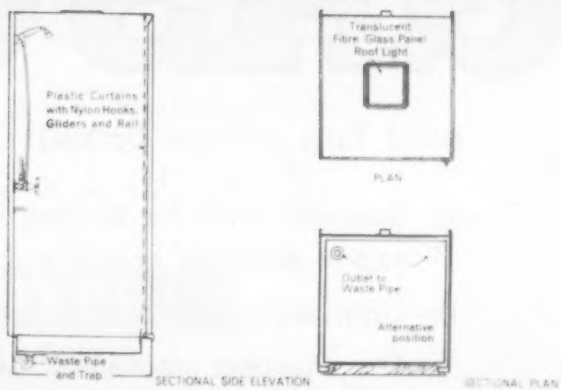


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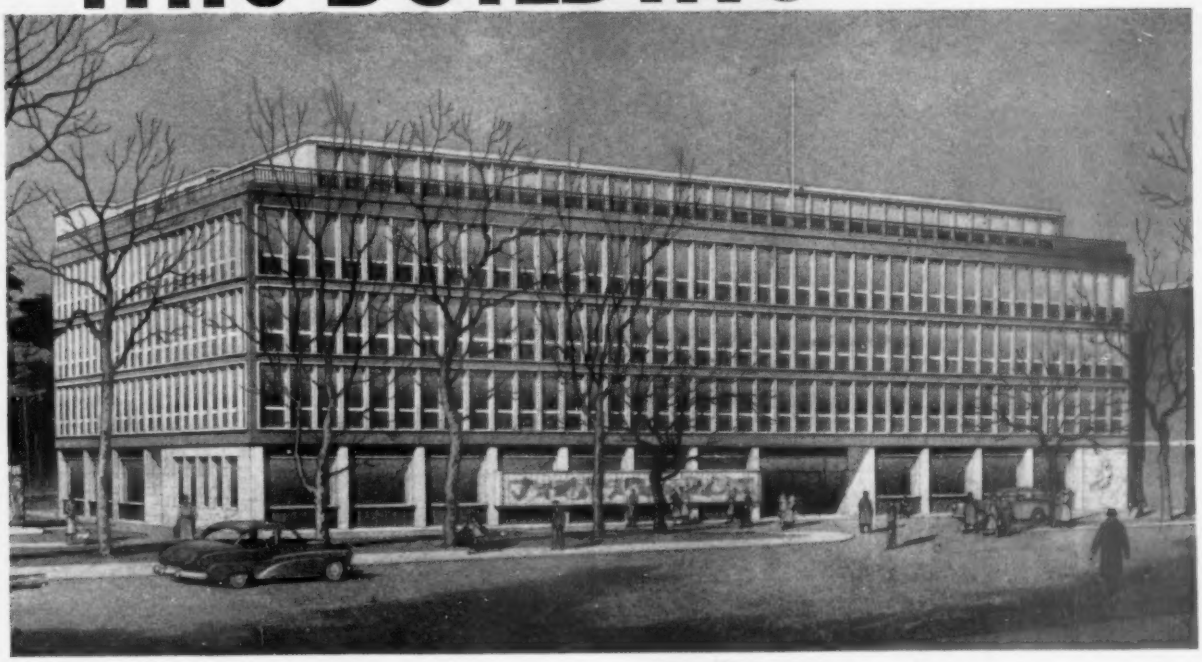
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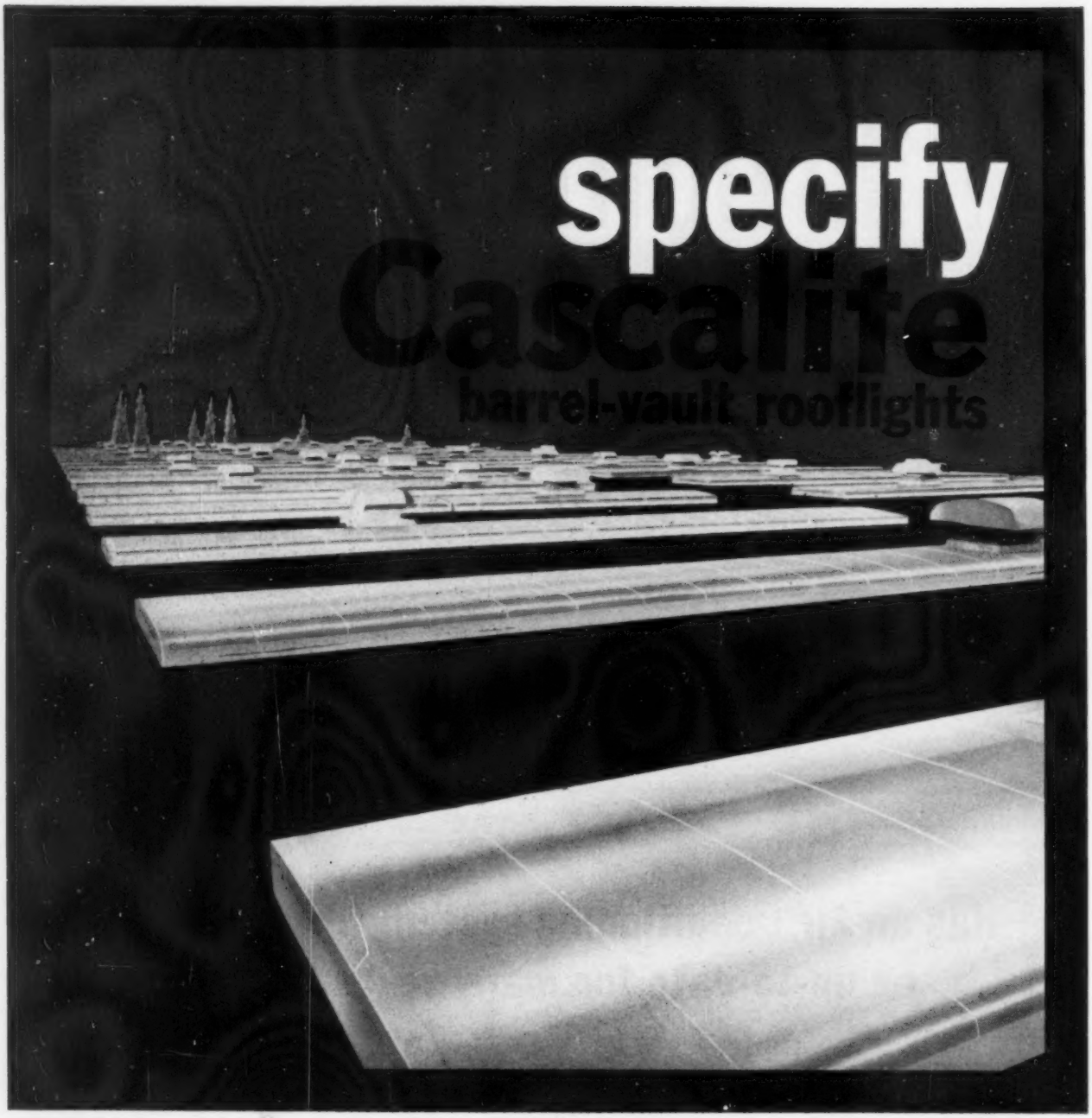
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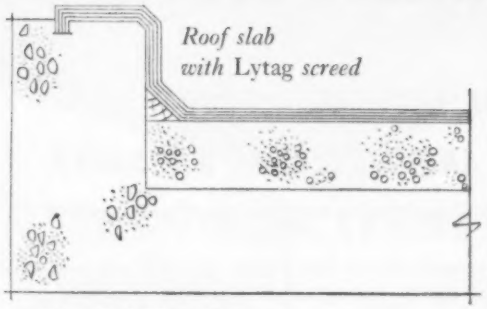
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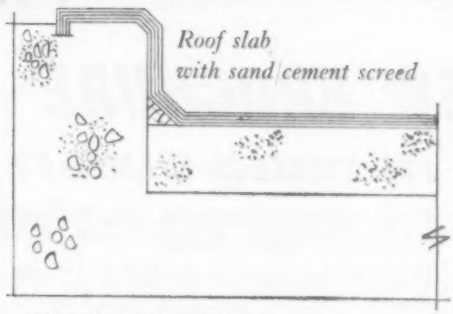
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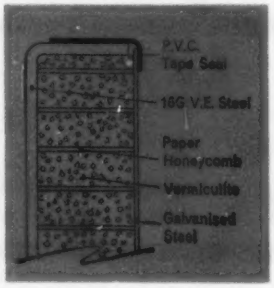
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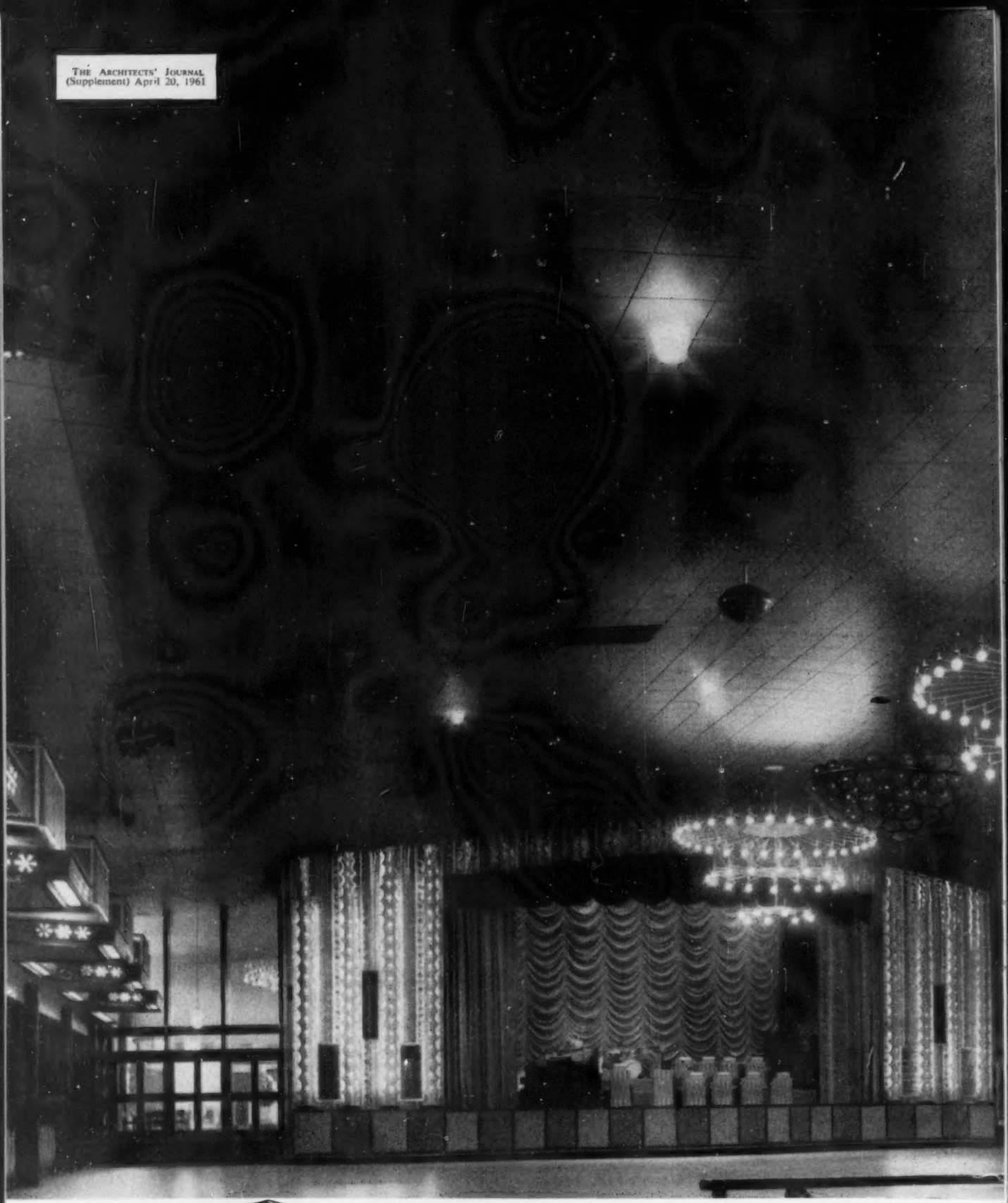
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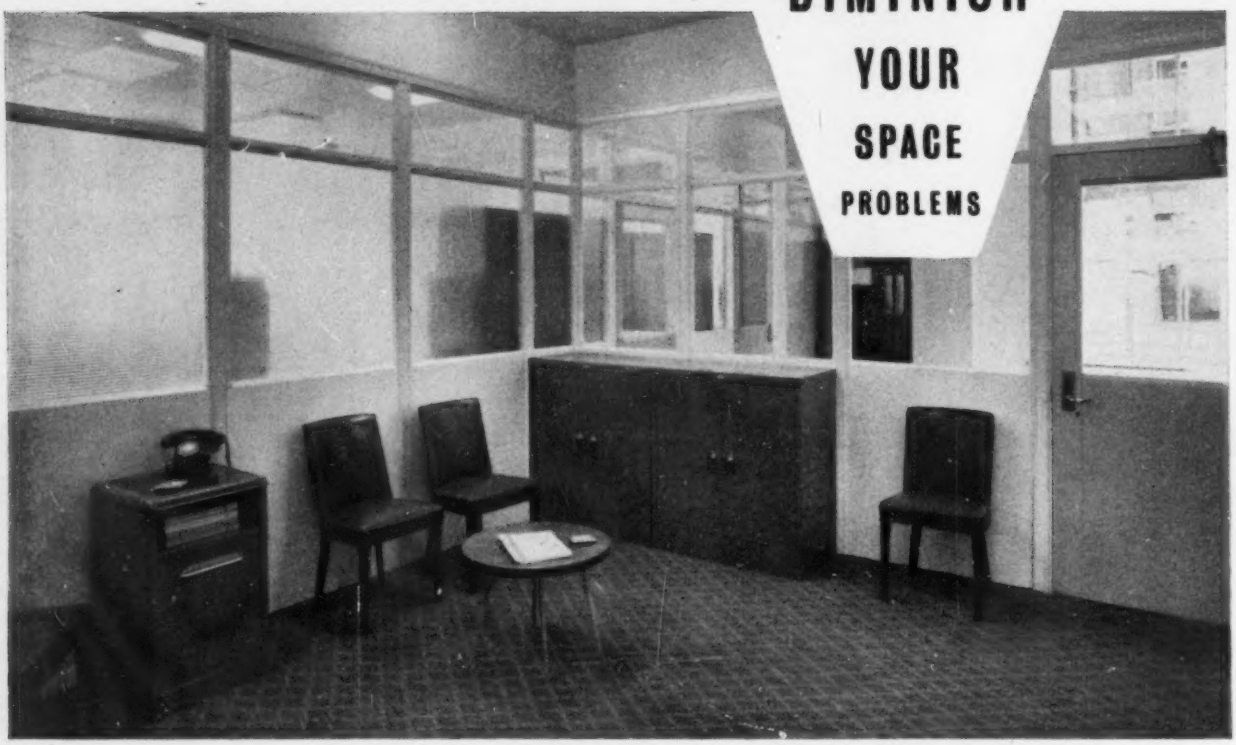
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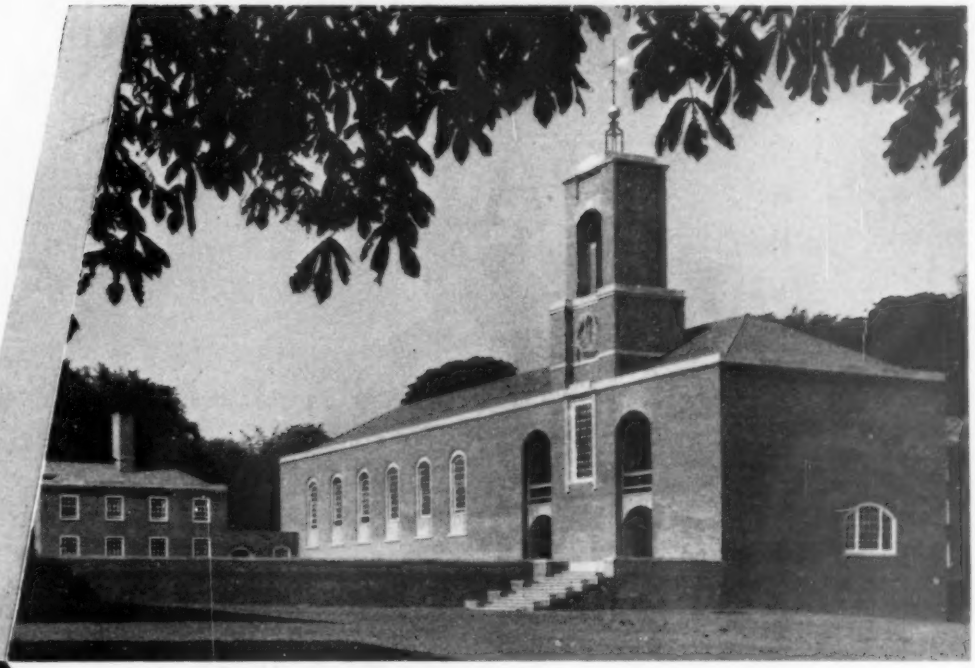
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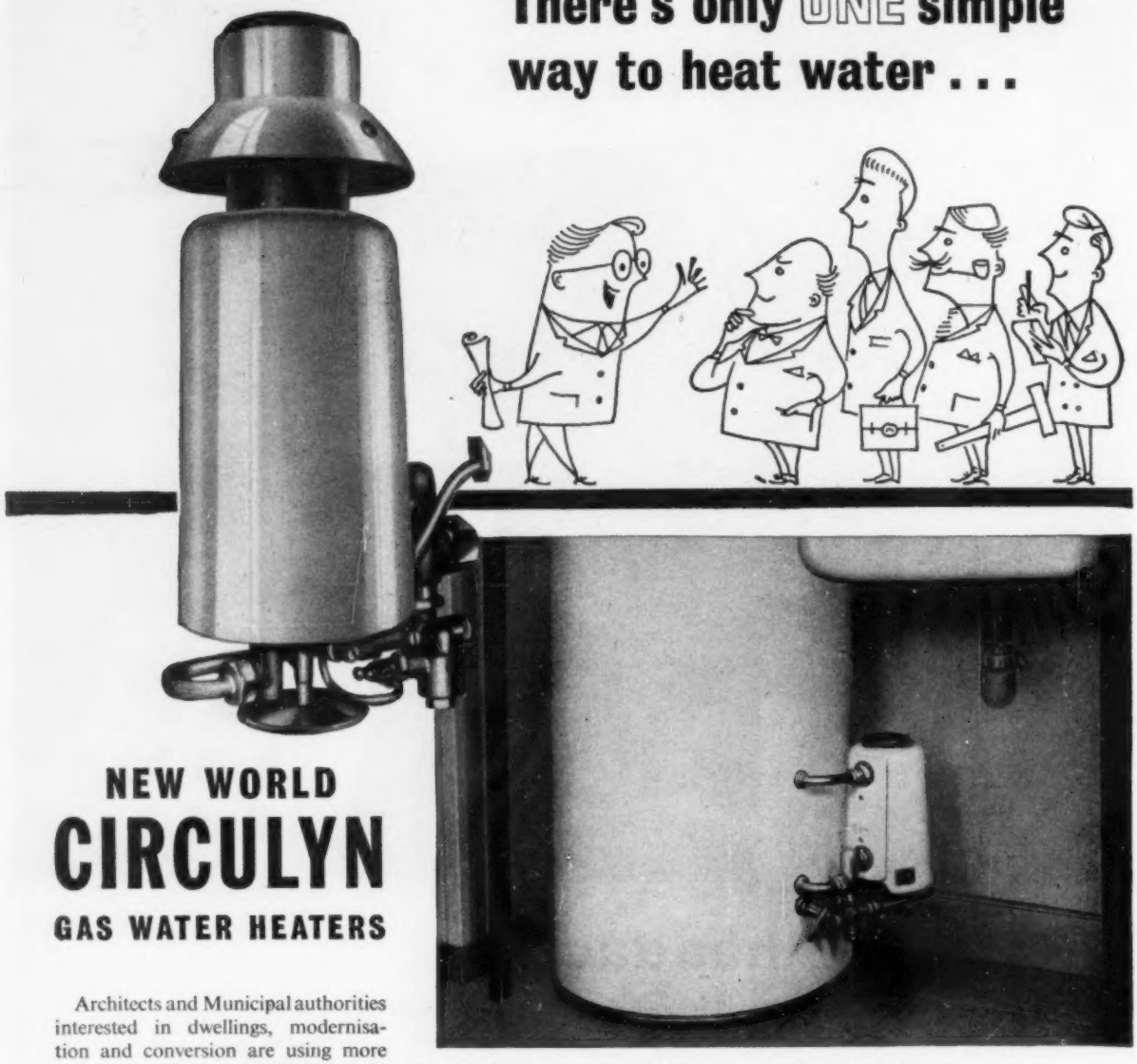
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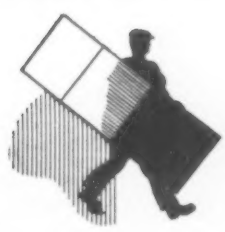
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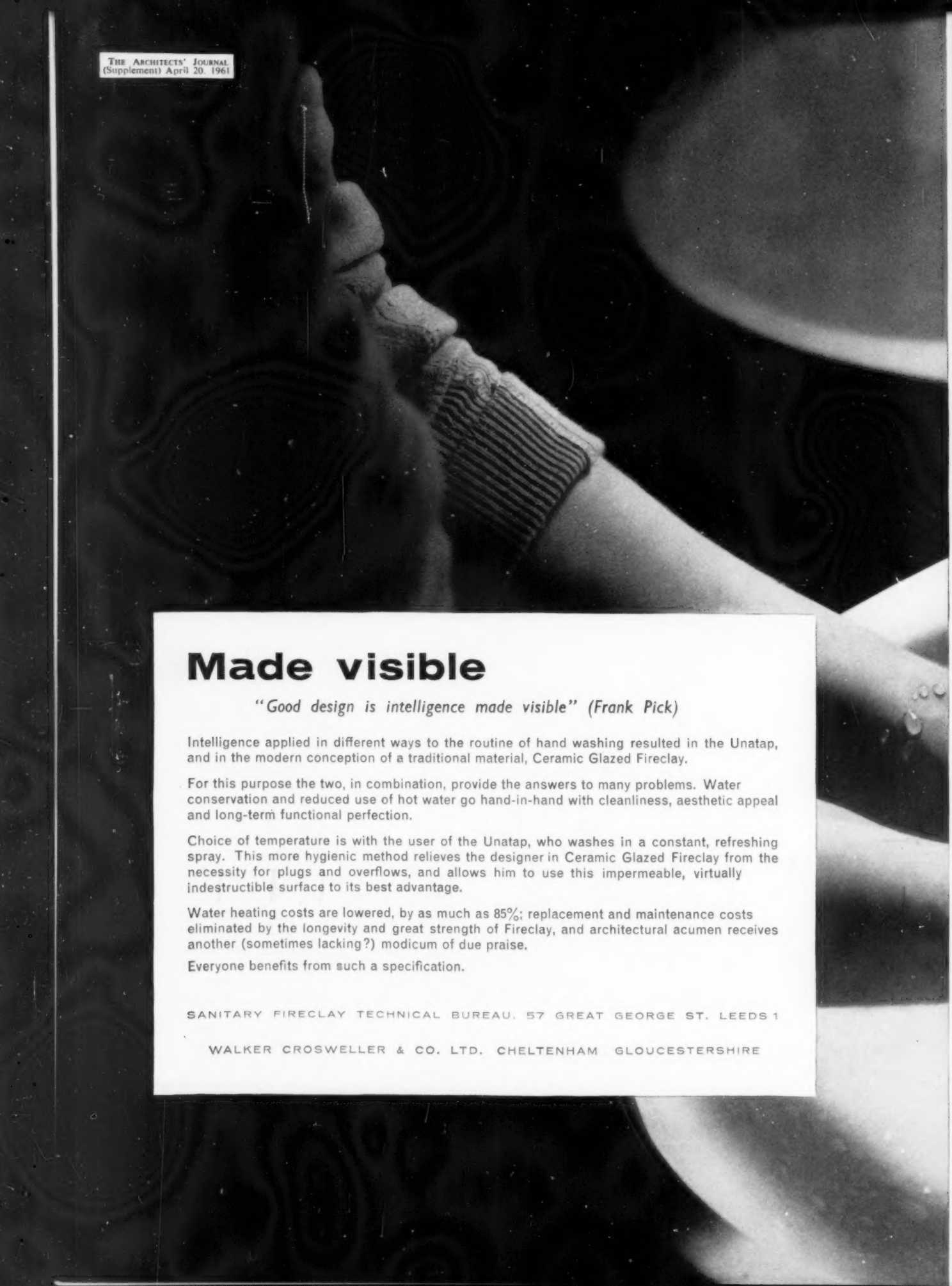
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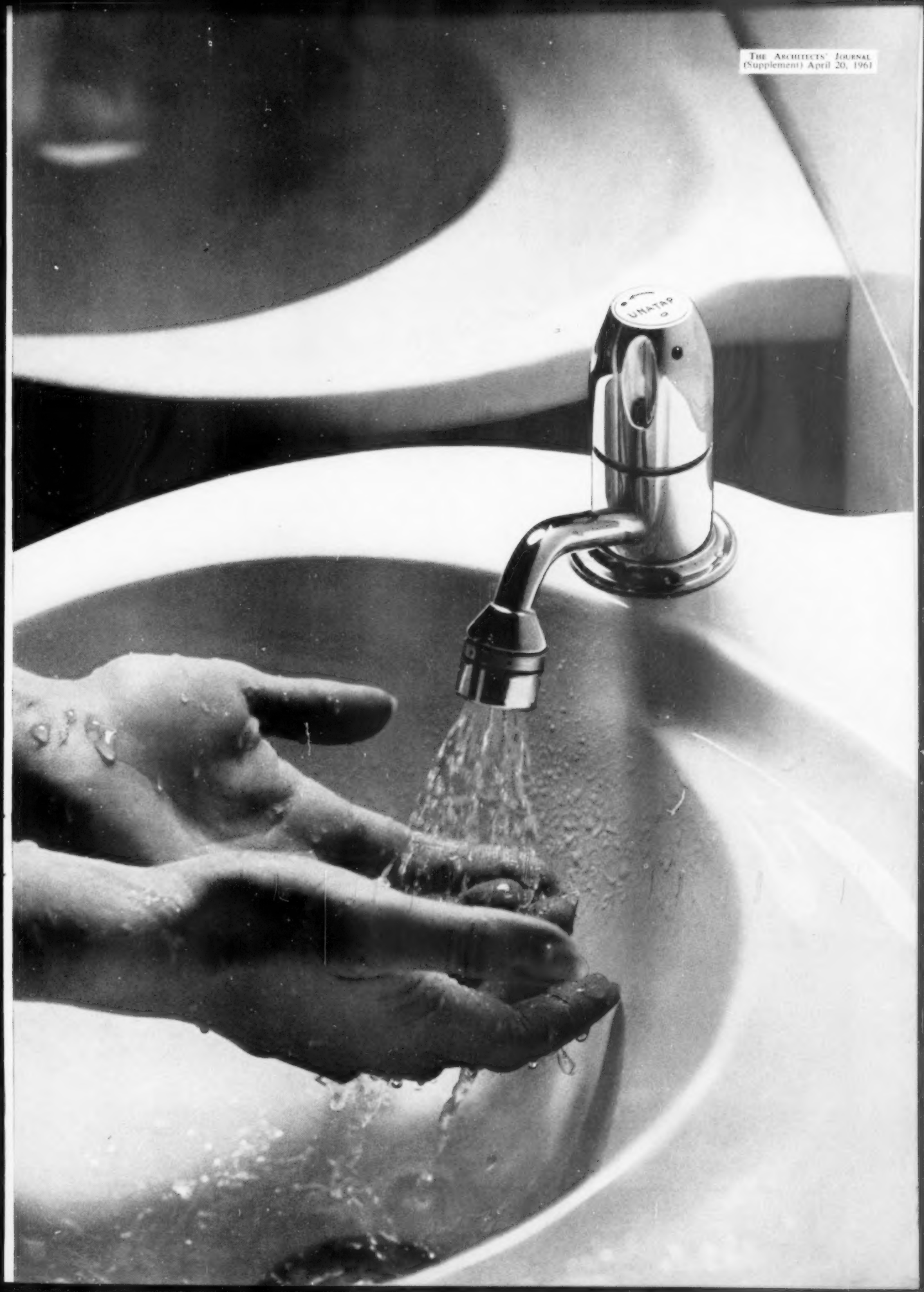
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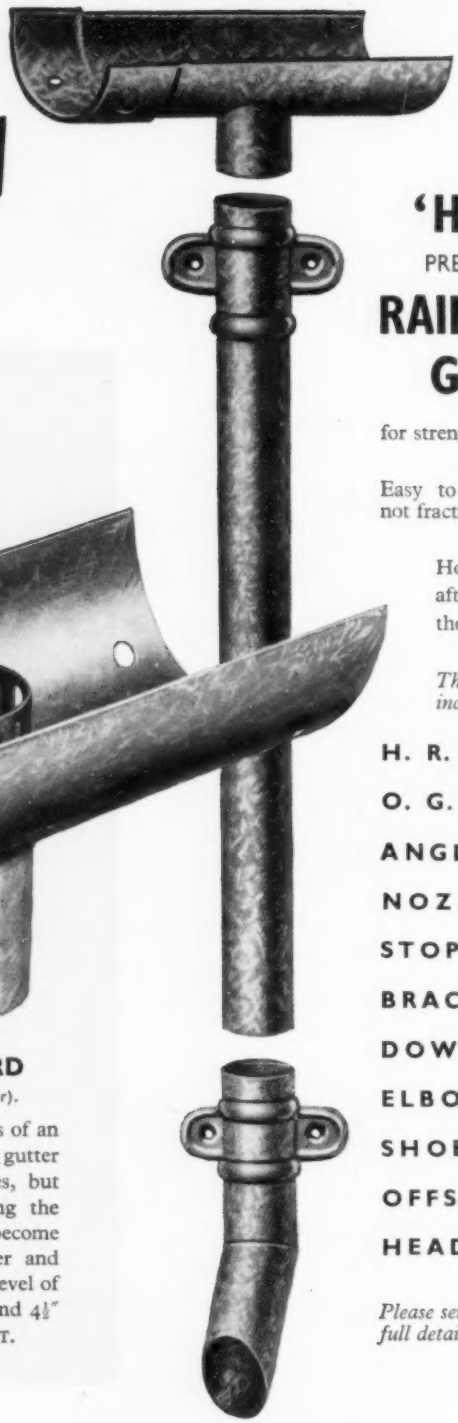
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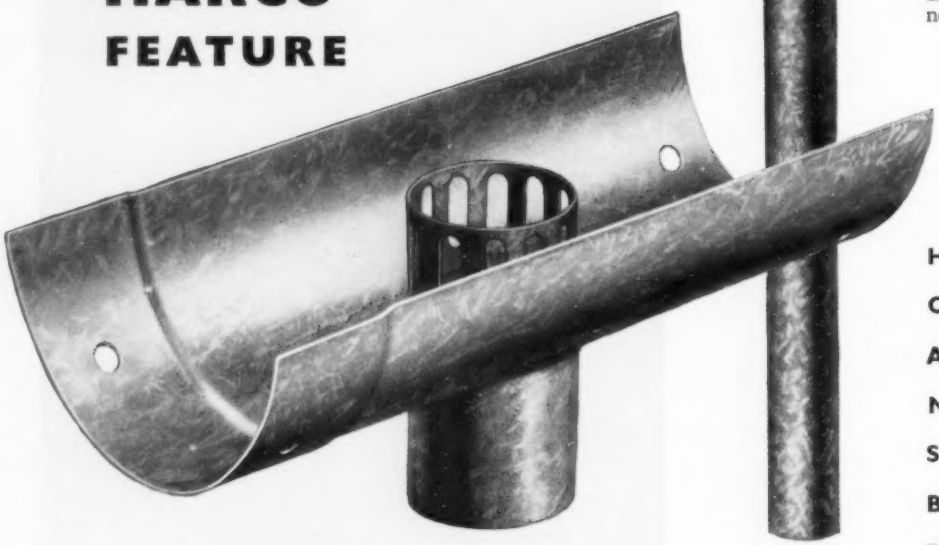
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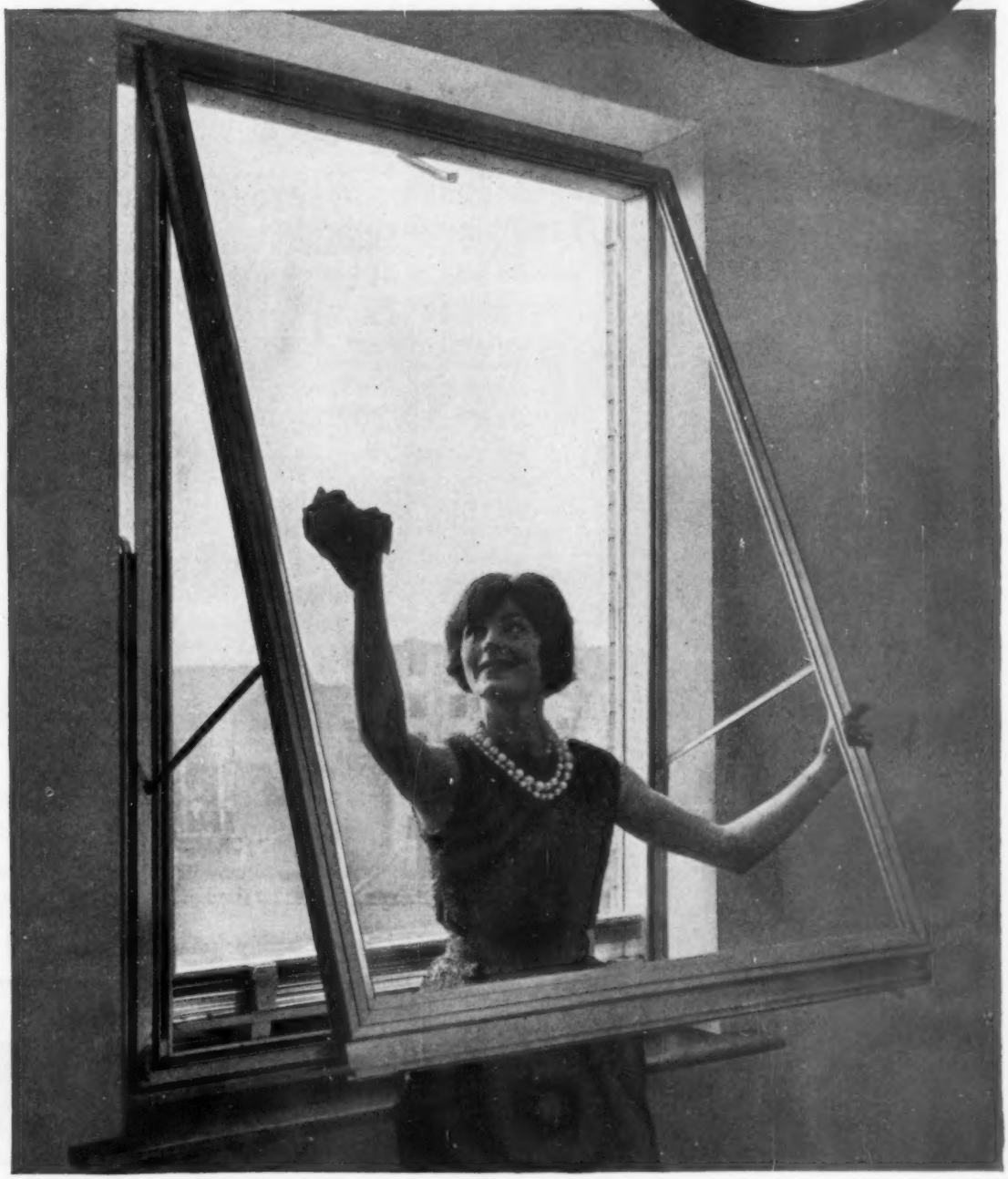
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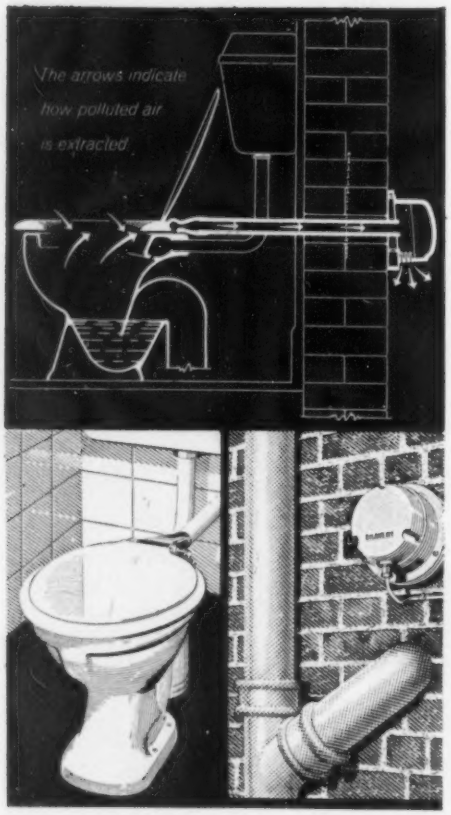
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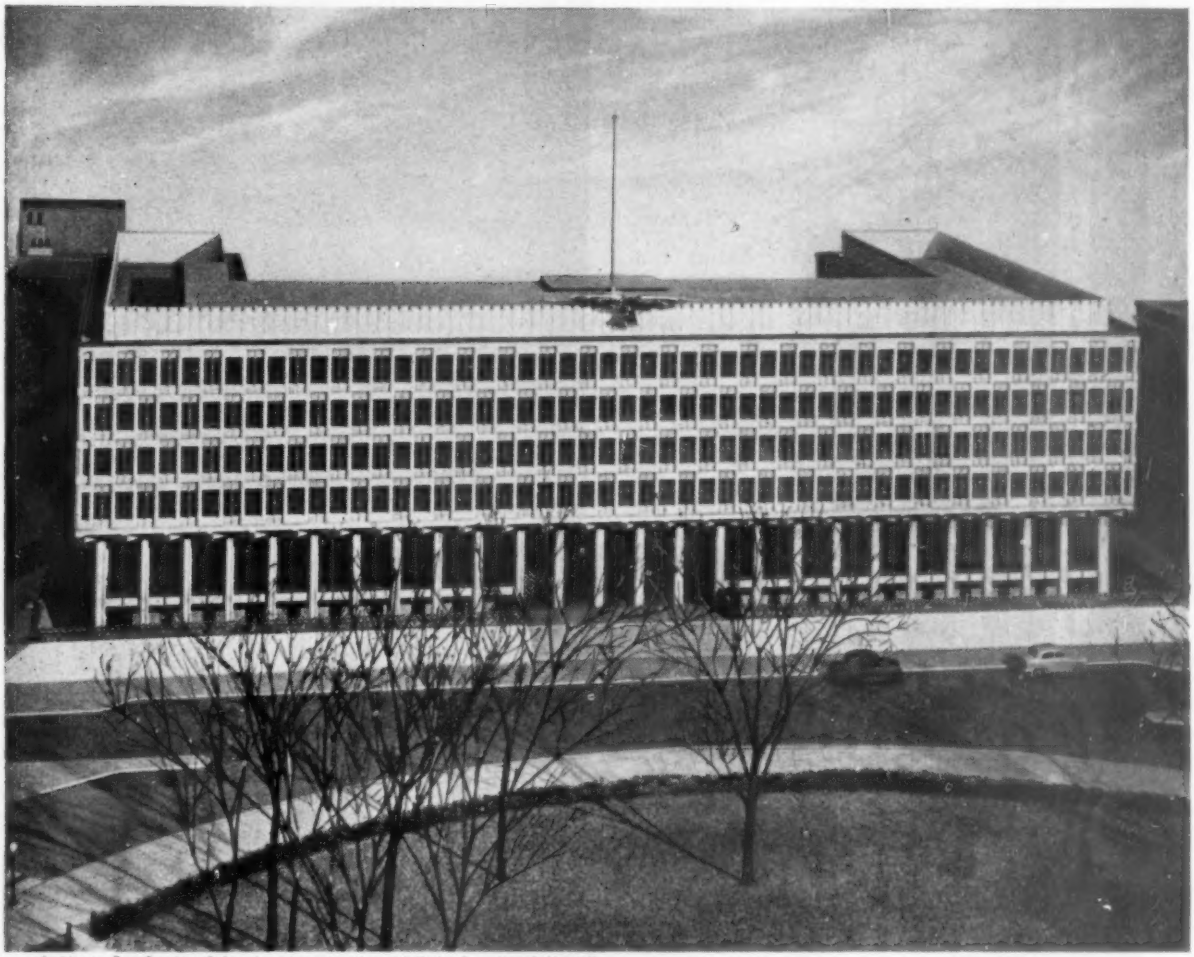
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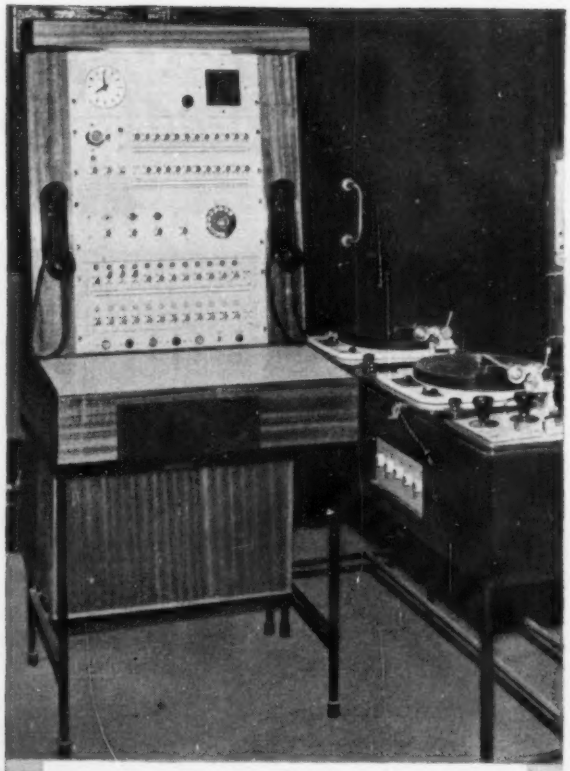
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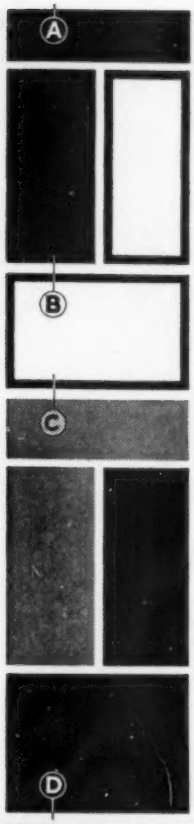
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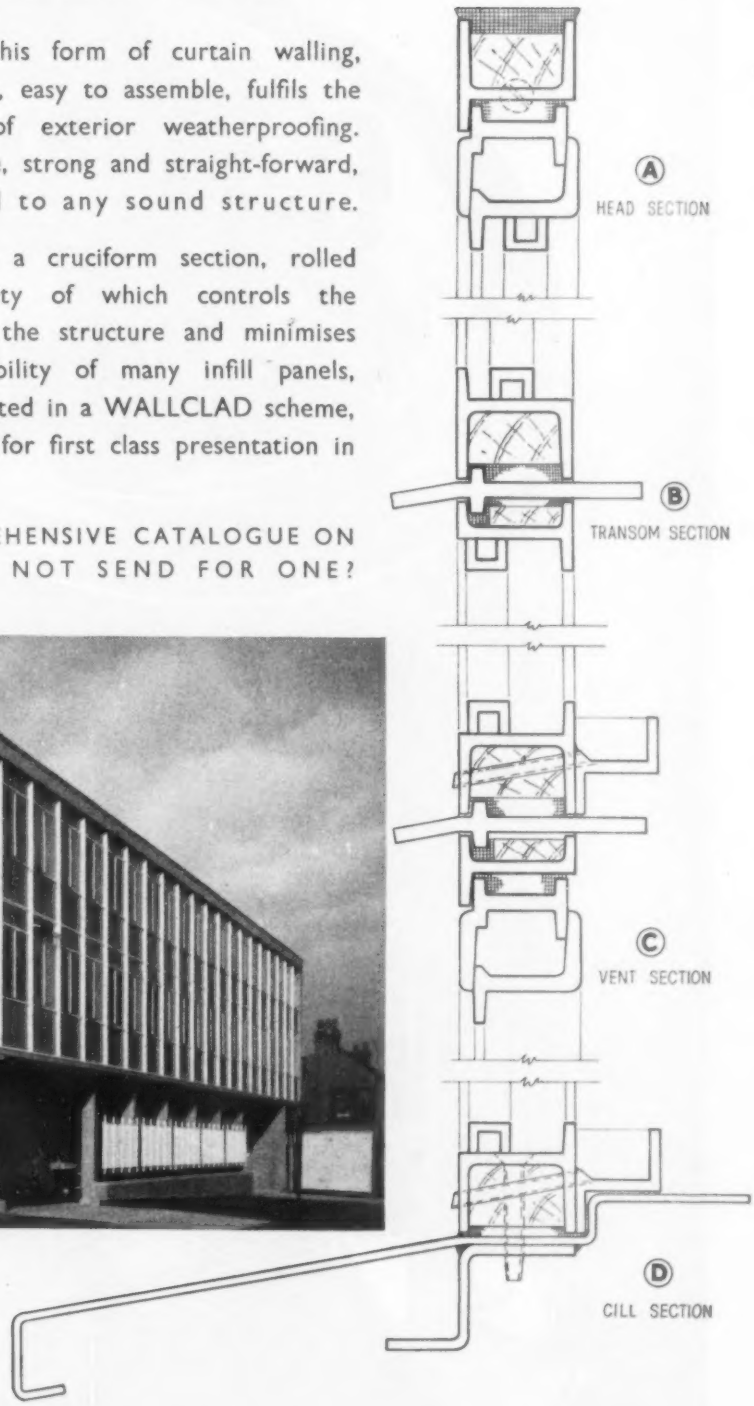
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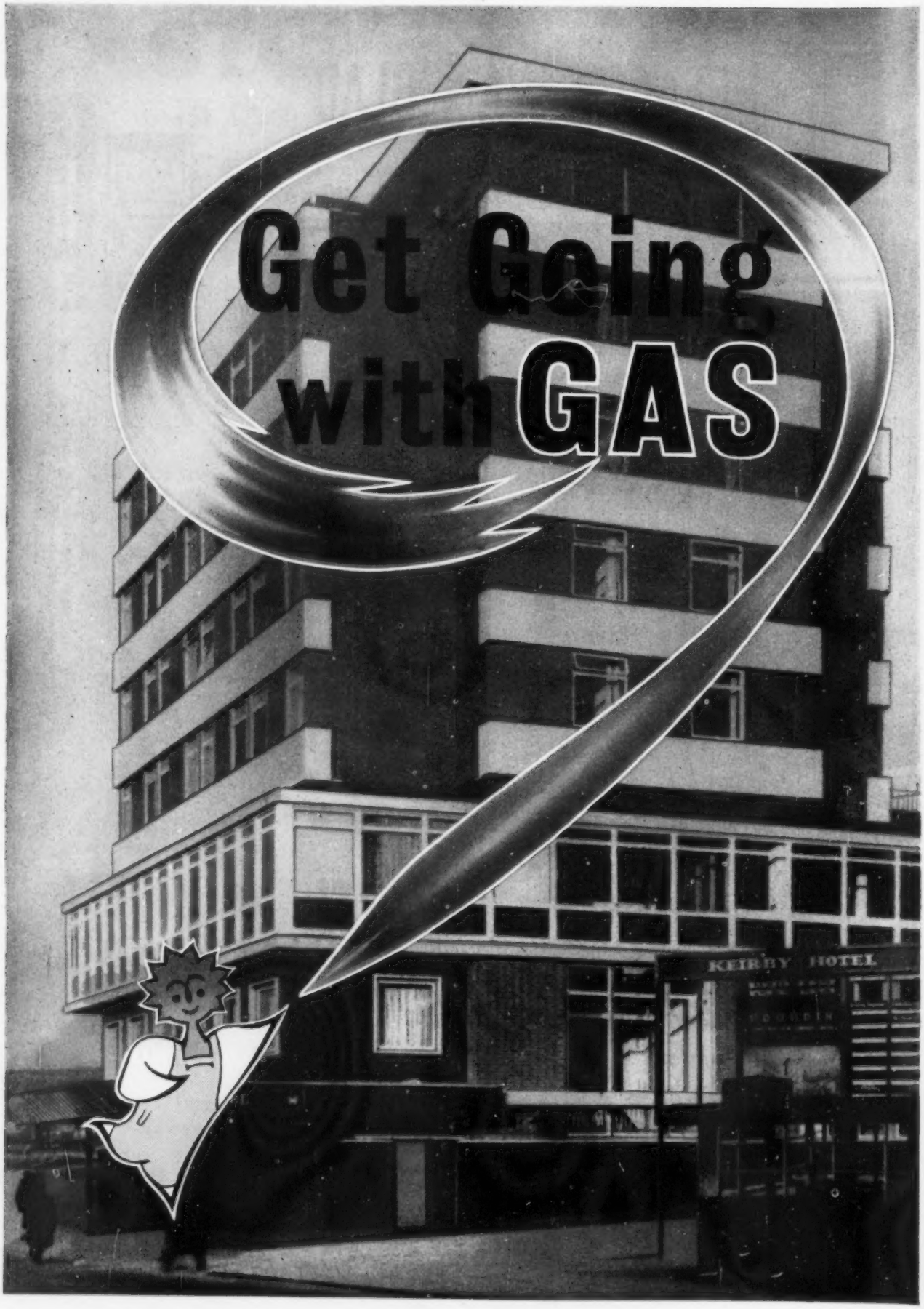


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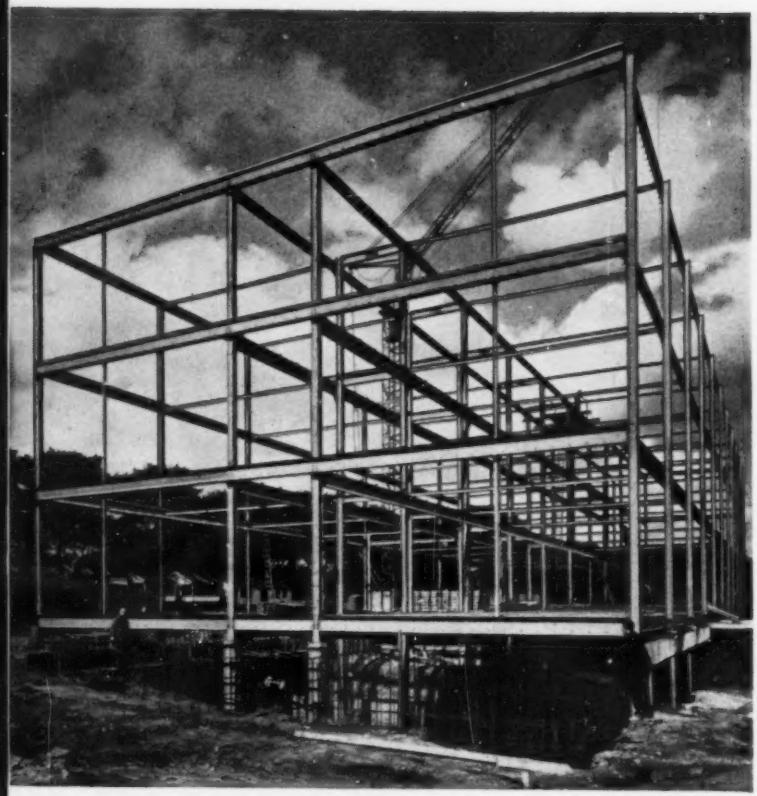
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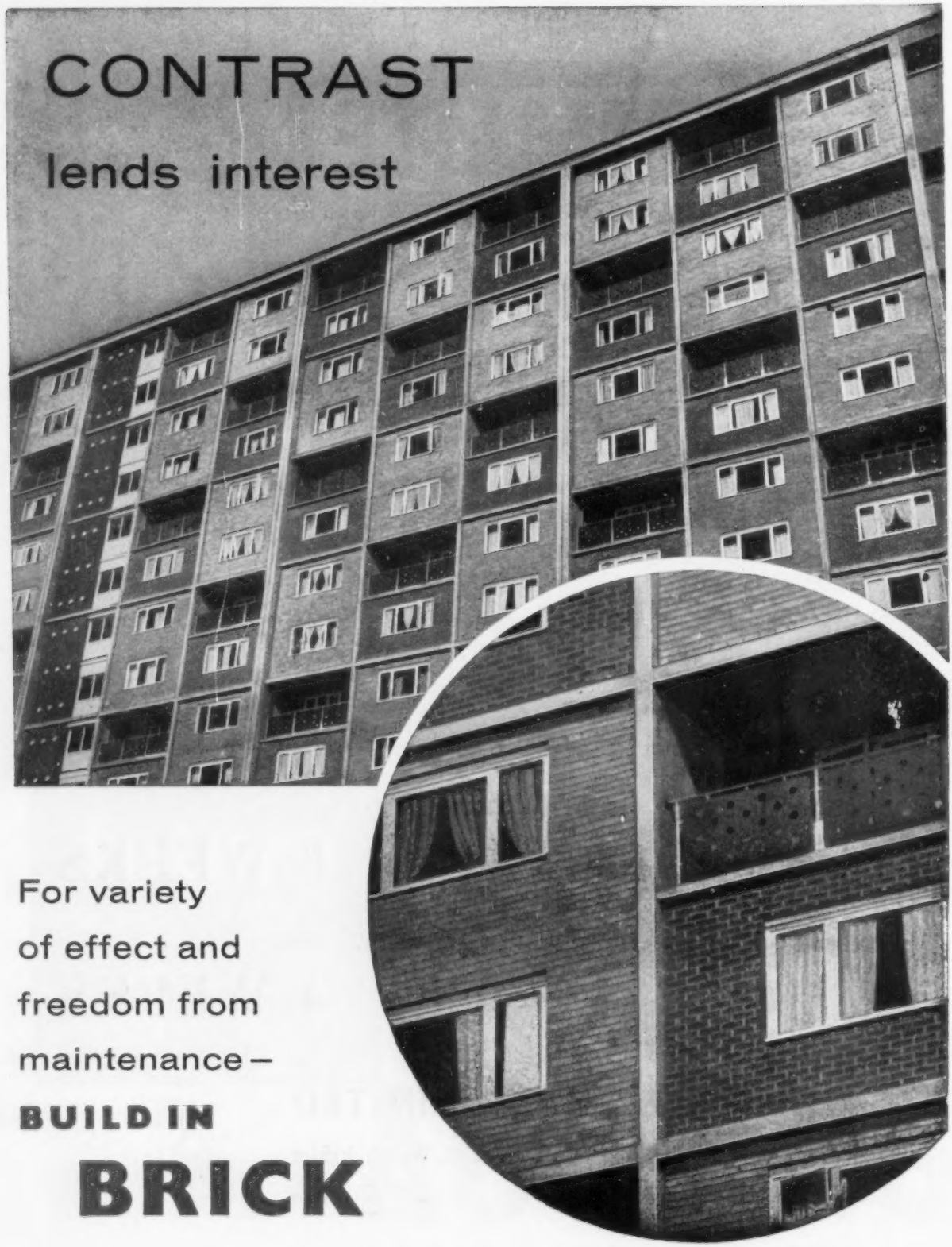
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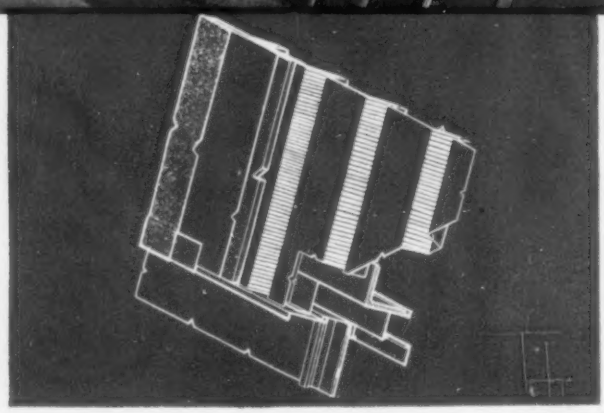
how BRIGGS solved this roofing problem

At this detail above opening North light glazing, it was necessary to provide a weather trim to the movable glazing frame incorporated in the aluminium section, which normally closes off the decking at this point.

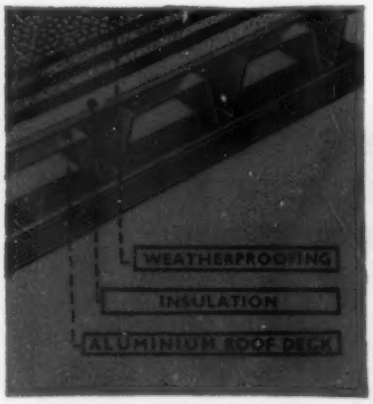
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News from Hull

Luxury Flats and Offices in a Nash Crescent

'Standard' equipment used extensively



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A new block of luxury flats and offices will shortly be completed in Park Crescent, W.1—the lovely crescent near Regent's Park, famous for its fine Nash houses. The west side of the crescent was heavily damaged by enemy bombing during the war, and to preserve the character of the crescent the frontage has been rebuilt exactly to the original Nash design.

The block, which has been developed by Portland Estates Ltd., provides over 55,500 square feet of office space. There are also on the site 92 luxury flats of one, two, or three rooms, kitchen and bathroom.

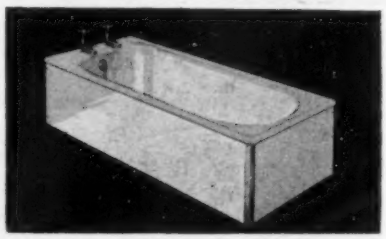
In each bathroom there is an elegantly styled 'Standard' Lowline bath finished with high quality porcelain enamel. The Lowline has three possible tap positions and hand grips are optional. The wash basin is the 'Standard' Kingston mounted on chromium plated legs (although it can be wall hung or fixed on a pedestal) made from durable vitreous china. The 'Standard' Kingston double trap siphonic low level closet suite, also of vitreous china, completes the sanitary fittings in these bathrooms. 'Standard' equipment has also been used extensively in the luxurious offices. Devonian wash basins, Vitural slab urinals and Sano wash down closet suites all made from vitreous china have been used in the washrooms.

The advantages to the planner of using 'Standard' equipment in offices and domestic dwellings are obvious.

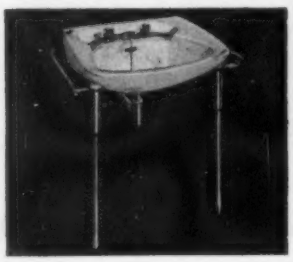
Firstly, the equipment is well designed. Both the Lowline bath and the Kingston range are outstanding examples of all that is best in modern bathroom equipment. The Vitural slab urinal is a great advance in existing urinal design and is the first full length slab to be made from vitreous china.

Secondly, 'Standard' items are made from vitreous china. This is more hygienic than ordinary ware—as it is non-absorbent, it is impossible for germs to lodge and breed in it.

Thirdly, 'Standard' equipment is extremely durable. It keeps its good looks for many years and replacement is rare so that it is more economical in the long term than other equipment. For these reasons 'Standard' sanitary fittings are being specified by architects for more and more hotels, public buildings, houses, factories, offices and schools, as each month passes.



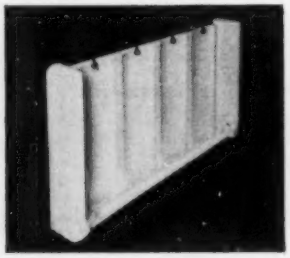
The Lowline bath



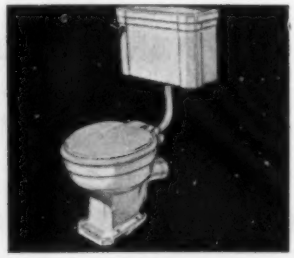
The Kingston wash basin



The Kingston low level closet suite



The Vitural slab urinal



The Sano wash down closet suite

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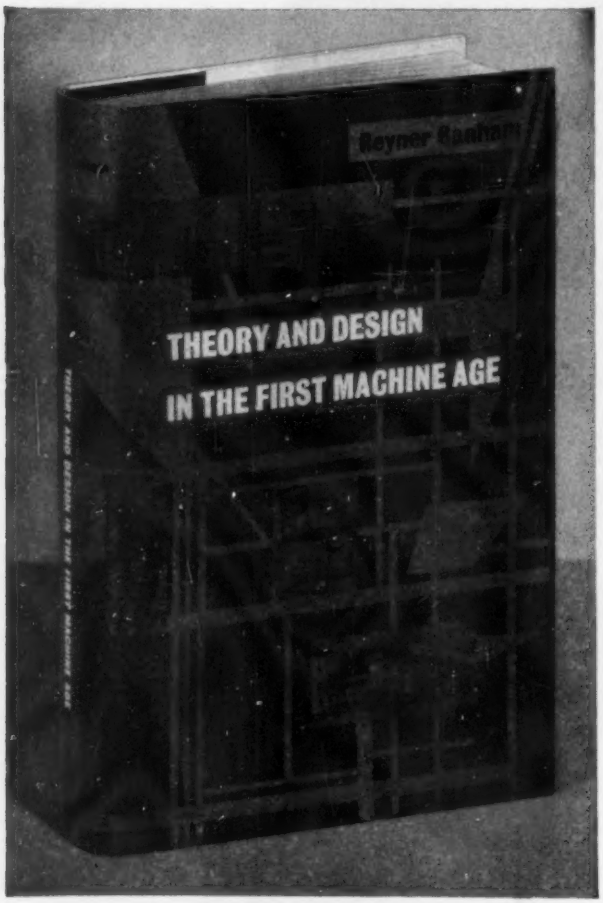
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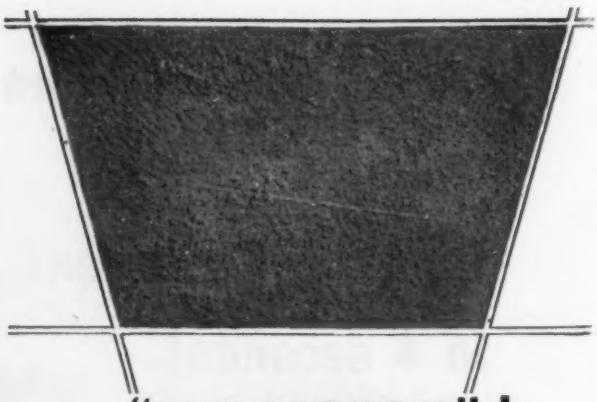
THEORY AND DESIGN IN THE FIRST MACHINE AGE

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it unknown to English readers—but also buildings, projects, industrial designs, paintings and sculptures—many of them illustrated in an English-language publication for the first time. Dr. Banham shows how one unifying theme finally emerges from this melting pot of exciting designs and excited discussion—the theme of a Machine Age Architecture; the architecture of the International Style, as the historians term it; Modern Architecture, with its white walls, flat roofs and big windows, as the man in the street understands it. Into the growth of this theme went many highly inventive designs, which the author illustrates and analyses; many and varied publications, ranging from the scholarly to the scandalous, from which he quotes extensively, showing not only how the theories are related to the finished products, but also how the theories—and even the theorists—are related to one another. *Size of book* 8½ × 5½ *in.* 340 *pages with over* 150 *half-tone and line illustrations.* 45*s. net, postage* 1*s.* 9*d.*

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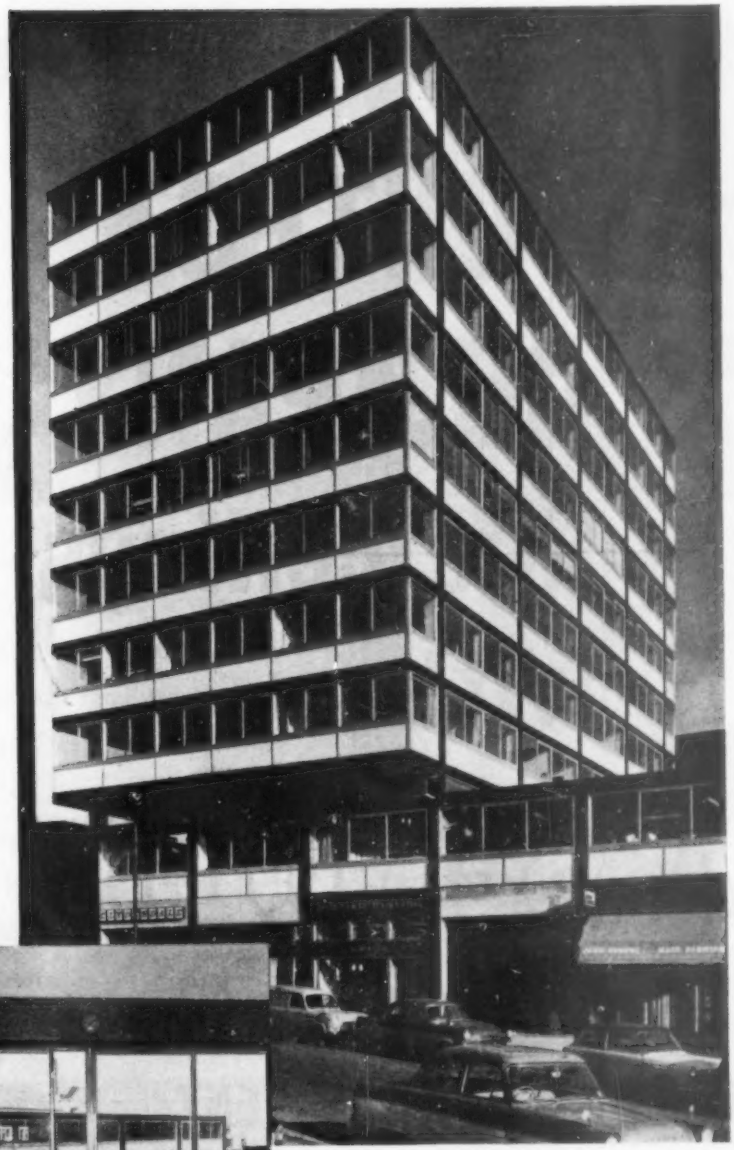
KT.2

ALUMINIUM IN ARCHITECTURE

City House Nottingham

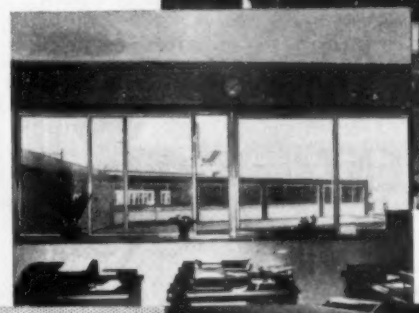
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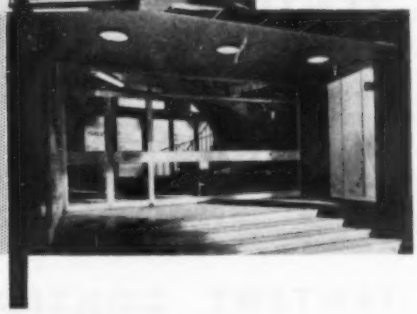
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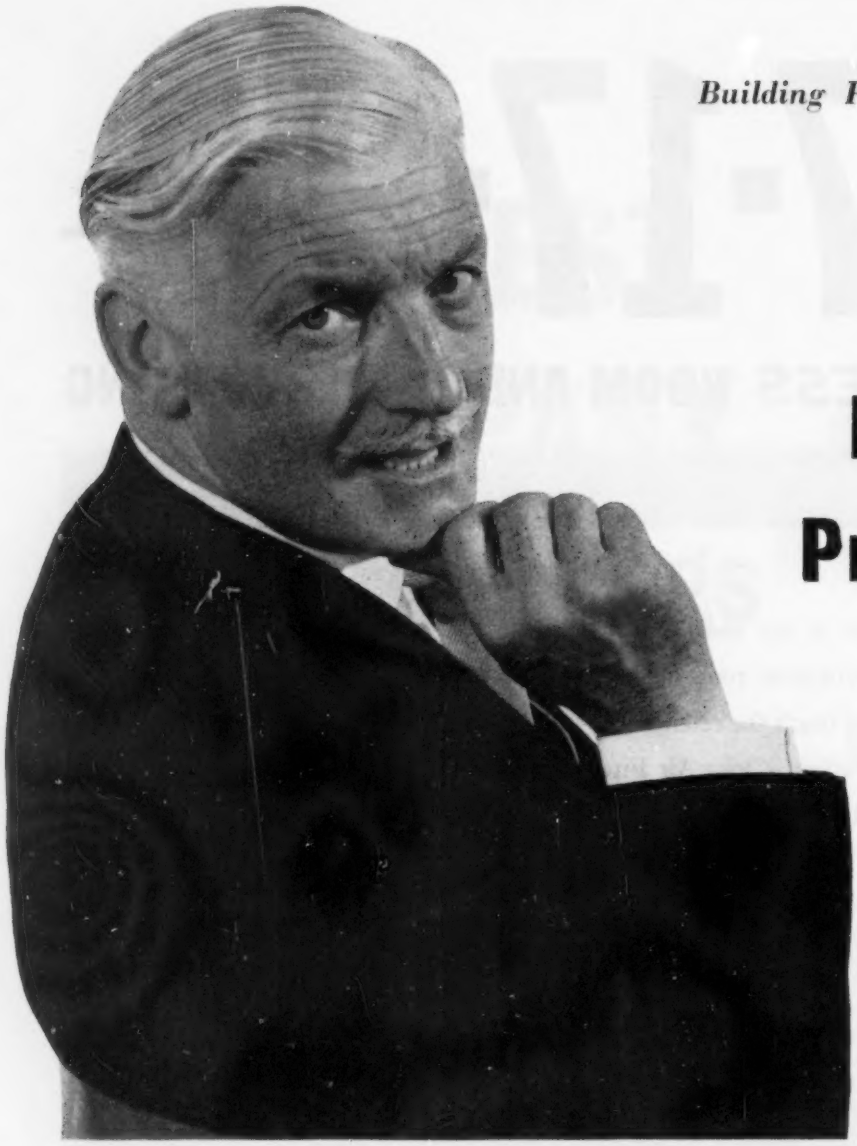
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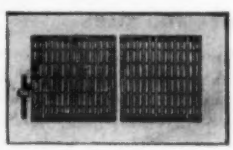
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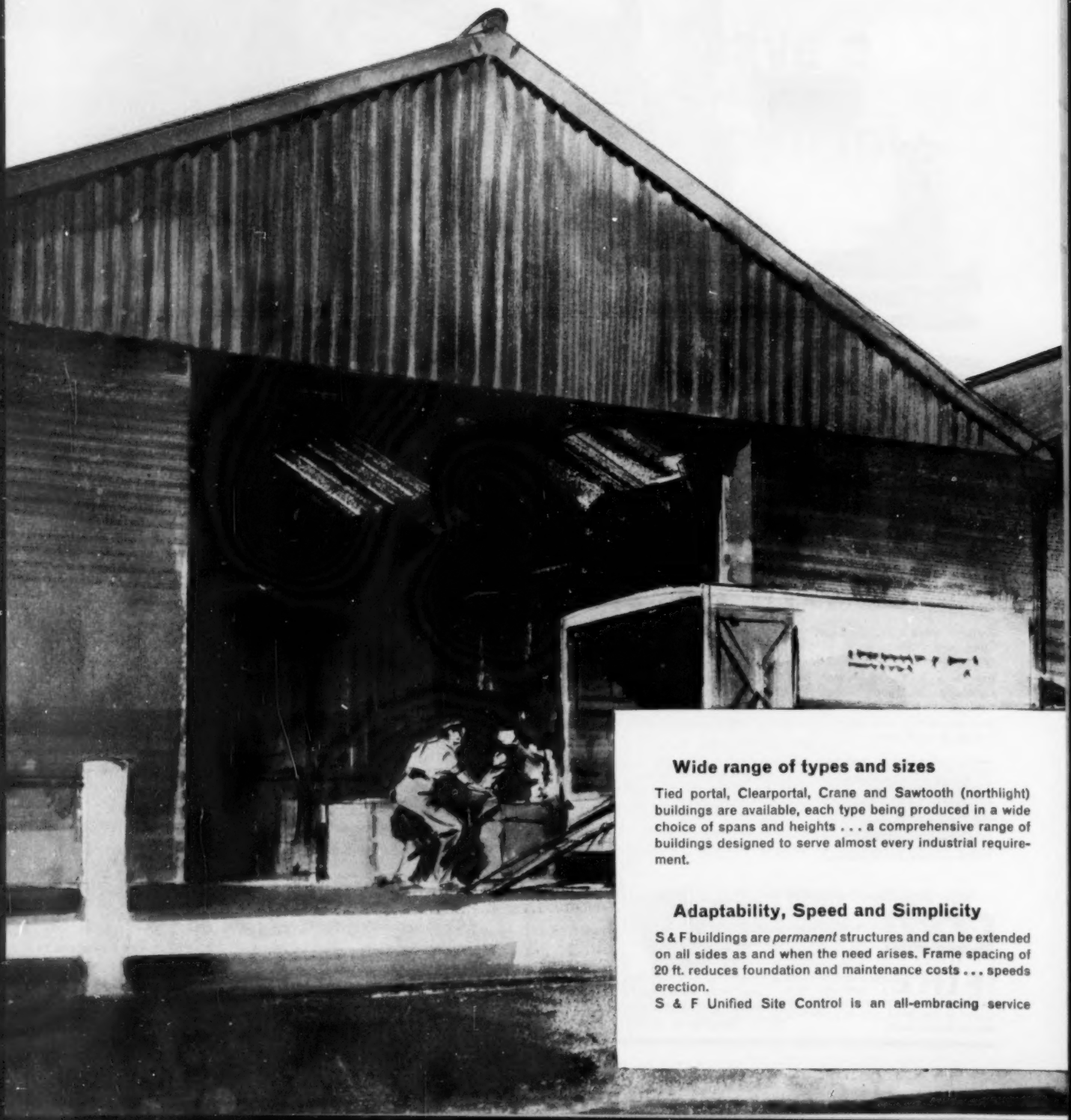
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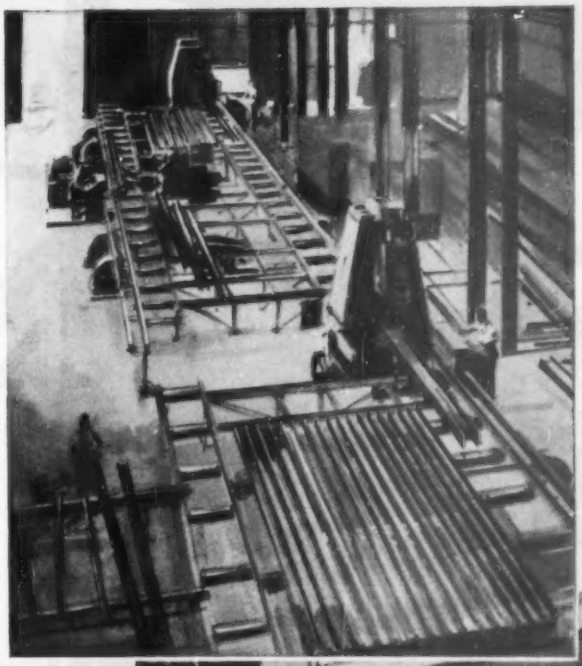
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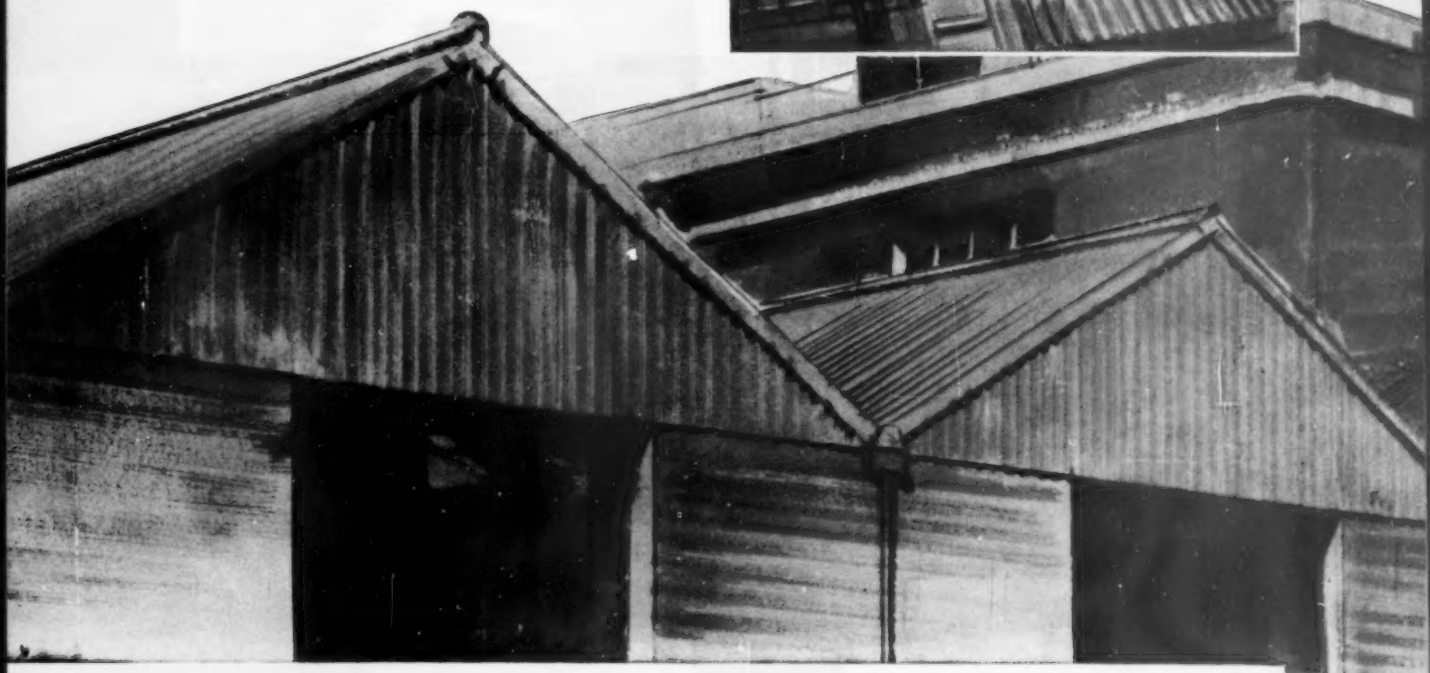
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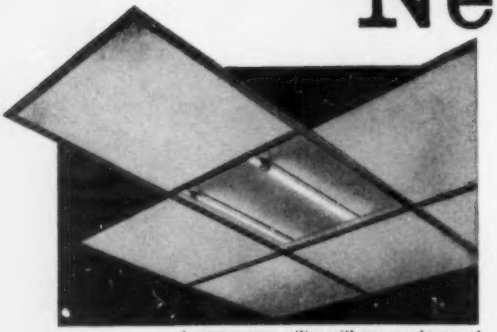


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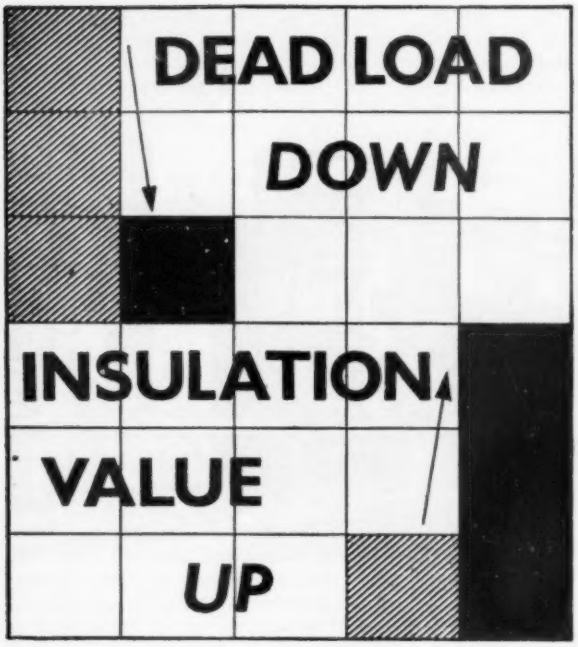
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NOT QUITE ARCHITECTURE

Why So Shy?

The Editors, I suppose, have a pretty shrewd idea of what architects are like. They must know, for example, that we are all either shy or frantically busy (or get petrified when someone puts a pen in our hand and asks us to express ourselves in writing). How else do they explain why so few of their readers ever write them a letter? Architects must get steamed up about architecture sometimes. Why do they so seldom let off steam in the correspondence columns? Is it because they don't often read their JOURNALS?

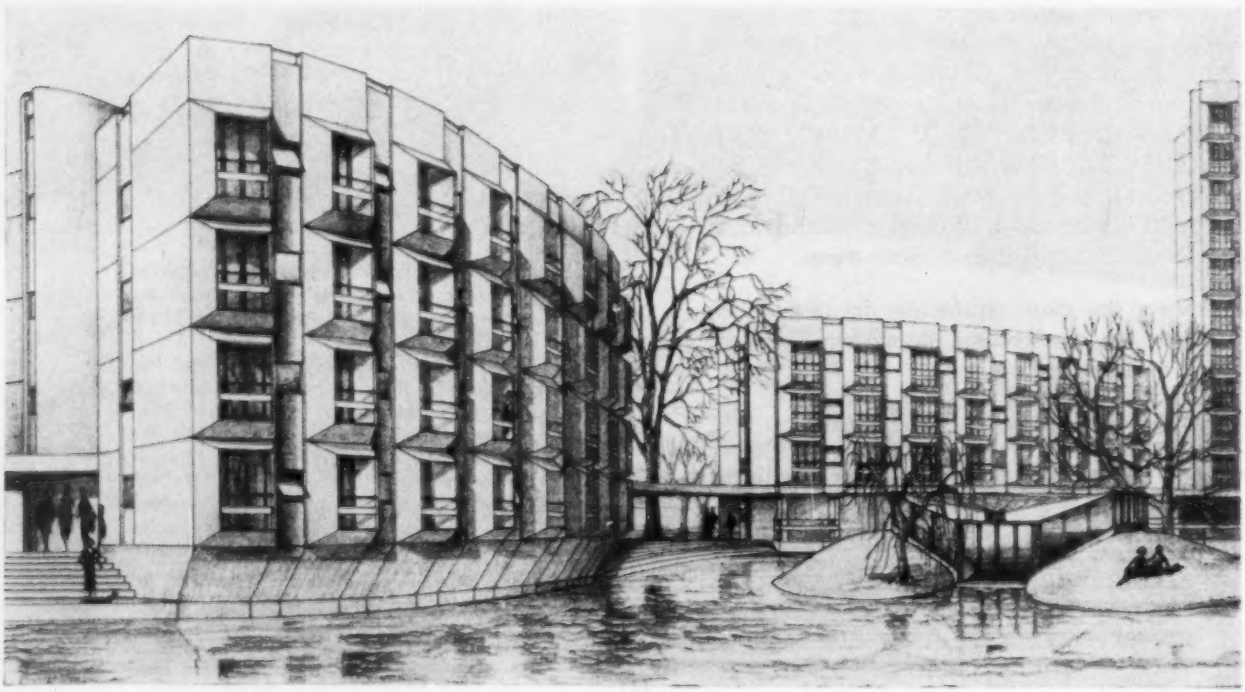
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I must say that for some years I found the AJ unreadable. It was on account of my drawing filing system. Perhaps I should explain.
I am a methodical sort of bloke and like to organise things. I believe, for example, that drawings *should* be filed, and have done a good deal of research into the problem. Undoubtedly one of the three or four best ways to file drawings is to *roll* them. A factor which influenced my reaching this conclusion was my wife. She holds strong views on, amongst other things, housekeeping. One of these (the result, no doubt, of spending her formative years in the Outback) is that groceries should be bought in bulk. We don't get just one packet



The rebuilding of St. Anne's College, Oxford, to designs by Howell, Killick and Partridge, which were published last week, will be a long-term, phased operation covering perhaps 15 years, while the College authorities raise the cash. The architects propose to rebuild in a series of curved blocks with a highly modelled surface treatment, set in a wide oval round the College garden. Above, the garden front of the first block to be built shortly, adjoining the existing library building (left, behind the cedar). Future block on right and one tall block behind. Below, the entrance, fronting on Banbury Road. The right-hand block, lake, and romantic island with music room will come later. The buildings will be linked by a covered way. Further pictures and description on pp. 565-6.

St. Anne's College, Oxford



of flour, we get a sack of it, not just one bottle of peanut oil, a gallon jar, not just one can of baked beans, a carton.
It was the cartons that beat me.

*

Burning them in the backyard was taking the easy way out. Filling them with garbage and putting them out with the tins was earning me a bad name with the local council. I tried burying them.

*

Then one day I got it!
What better method of filing drawings than rolling them and standing them on end in an empty baked bean carton? From this fortuitous discovery I proceeded to refine and perfect the system. One problem I came up against was that we were getting through cartons quicker than I made drawings to fill them. You will appreciate that it is generally only by coincidence that I had the right number of rolls of drawings exactly to fill a carton or that I happened to have a size of carton which exactly fitted the number of rolls of drawings I had at any one time. This is the point at which the system would have broken down if I had not made yet another fortuitous discovery. This was that the AJ came to me *rolled*. You can see what I did, can't you? I filled up the half-empty cartons with wrapped AJs, taking out an AJ as I had a drawing with which to replace it.
If you think I am straying from the point at which I started it is merely to show that I understand that there are probably many reasons why architects who get the AJ do not read it.

*

Even so, it does not seem to justify the lack of frankness with which architects, through the correspondence pages of their favourite weekly, are prepared to discuss the problems which bedevil their existence and make the practice of the Mother Art seem at times so trying and unrewarding.
What about all these floor screeds that curl, or tiles that lift? What about the efflorescing brickwork? Anyone who reads the BRS Annual Reports or who has occasion to talk to the boffins at the FPRL or any of the trade development associations, for example, will know that architects do have their problems. But how often do they write to their editors about them?

*

Maybe it's the approach that is wrong. If the AJ wants its readers to take an active interest and actually write their true confessions, it must go out and get them. It needs punch. The human element, you know: "Are You and Your Client Incompatible?" or "Sir Albert Richardson Tells All" or how about a feature on "What Went Into Your Mix?"
Must sell that idea to the Editors.

JIM TANNER

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* To preserve freedom of criticism these editors, as leaders in their respective fields, remain anonymous.

The Editors

THE NEW RIBA COUNCIL

ON Tuesday evening next week, there will be a special meeting of the RIBA to consider the draft revisions to the Institute's bye-laws, the most important feature of which is a completely new structure for the RIBA Council. The proposal is that the main body of membership should now be of two classes, thirty-three nationally elected and twenty-eight regionally elected members. Any member living or working in the regions defined in the byelaws will thus have a second vote, whether or not he is a member of the relevant Allied Society, provided that his name is on the register of the constituency kept up to date by the RIBA. Anyone on the register for the constituency can be nominated for election as a regional member, but with the important proviso that he is serving, or has served, on the Council of the appropriate Allied Society. What the change basically amounts to, therefore, is that the present twenty-four Council members who are Presidents or nominated members of Allied Societies are replaced by twenty-eight members elected by all RIBA members in those areas. This step towards democratisation is welcome, but it leaves the anomaly of those members living and working in London, who will still have only one vote.
The other important change in Council membership, rather relevant to this point, is that the AA is no longer to be represented. This is a sad blow; gradually, bit by bit, the AA seems to be losing its status in the profession. There can surely be a special electoral register on which AA members would be able to enter their names, to use their second vote for an AA representative. It is also a pity that the idea has not been adopted for some form of student membership of the Council, particularly for those who pay annual subscriptions. Some form of non-voting representation at least, should surely be possible. We hope that those who are concerned about the disenfranchisement of the London area, the AA and the students will speak out at the meeting.



LIGHT FANTASTIC

I was interested, last week, to hear Dr. Harper—chairman of the drafting committee for the new IES Code—explaining its reshaping with demonstrations and film strip. But I was staggered to hear him say that this Code, which includes a general and marked rise in the recommended levels of illumination for artificial lighting, has received the official blessing of the BRS, and was intended as a standard for general recognition. If Dr. Harper is right it is surely a dangerous precedent for BRS to recognise a Code put out by a sectional interest rather than by BSI, who could have approached such interests as the architectural profession and building users. Just to make things more irritating, the Code (described in last week's AJ) is not A4 size.

NOT-SO-DAINTY TEES

A Teesdale reservoir has been built at Balderhead because it would have interfered with the growing of gentians at a more appropriate site. So said Alderman C. W. Allison, chairman of the local Water Board, when he opened the reservoir the other day—and he said it with some indignation. E. M. (pro-gentian) Nicholson hit back at the water boys, on behalf of the Nature Conservancy, by saying it was time the country trained scientists and economists to produce a long-term budget of water supply and demand based on scientific data. We needed, he said, a national scheme which would tell us where we ought to place our water-demanding industries. This sounds good sense: apparently Teesmouth suffers from having two of the country's greatest water-consuming set-ups in one of the driest areas in the country.

LOOK, NO HANDCRAFT

"Daisy" is back after 97 years. "Willow Boughs" is back, too, not to mention "Christchurch," which looks to me like water crowfoot. These three wallpaper designs are being machine-printed by Sandersons as part of the Morris & Co. centenary celebrations (see my note last week). The price will be 15s. a roll plus purchase tax, and it will be interesting to compare them with the block-printed versions still in regular use.

KNOCKABOUT

It was certain that sooner or later we should get a Lady Chatterley sketch in a West End revue. But I never guessed it would turn up next to one about architecture. It seems that the scriptwriters of *On The Brighter Side* are anxious to make fun of unhappy storeys—so the show which opened last week hits mildly at the South Bank Shell shock as well as at Penguins. Quite a jolly song we had—by a demolition crew who were itching to get at something really big like St. Pauls. A cynical song, too. To hear it you would think the author (Alec Grahame) suspects that high office blocks are put up to satisfy the greed of speculator. The title, by the way, is "The House That Jack's Building." All madly up to date, and even theatre audiences seem to have noticed architecture now that its going up as well as sideways.

ALL BURNED UP

Just in case you didn't give enough anger to the recent demolition and conflagration of Rushbrooke Hall let me remind you, as a *Times* letter reminded readers the other day, that it was one of the great Tudor Houses of East Anglia and comparable to Long Melford Hall and Kentwell—and that although its structure was sound in 1951, it was in a serious state of deterioration by 1953, when the Historic Buildings and Ancient Monuments' Act was passed. "One cannot blame owners," said a letter to *The Times*, "but there does seem a serious gap in our legislation which prevents them from demolishing their property until it becomes ruinous, but which gives no power to insist on even minimum maintenance, the lack of which can be equally destructive."

*

Like the writers (Lord Euston, James Mann, J. N. L. Myres and Ian A. Richmond) I hope that "such a disaster will never be repeated" and am surprised that no use could have been found for this hall, as it has been for so many others. Incidentally, isn't it odd that tourist-conscious Britain builds hotels "as modern as the morning milk" in London and yet ignores the appeal of lodging guests where Queen Elizabeth slept? Can't the preservation societies seek out and bully some suitable tycoons?

NOUS AUSSI?

If Sydney's Opera House looks like a sailing ship, Melbourne's projected arts centre (see opposite) is more like a rocket-launching site—at least to someone who has never seen such a thing. It started as a new home for the splendidly-endowed National Gallery of Victoria whose director has been consulted by architect Roy Grounds on a scheme which also includes an art school, three theatres (beneath the spire) a restaurant and assembly rooms (in it), offices and an underground car park. The whole thing will be surrounded by a "Pool of Reflection." Me, I'm just reflecting on our National Theatre fiasco.

*

If you want to see what is happening where the National Theatre won't be built after all, you may like to know that the LCC is taking its exhibition of the South Bank development to the Tea Centre in Regent Street on Monday next (2 p.m.) where it will remain until Saturday May 6 (1 p.m.).

*

But why do I write "won't be built after all" in that defeated way? Did not all contestants in the LCC election promise to build the theatre? A nasty exhibition of cynicism this—quite unintentional.

IUA FILM SHOW

The secretary of the RIBA Film Sub-Committee wants to be told about any film which is related to the IUA Congress theme of "New Materials and techniques: their influence on architecture." It is intended to show technical films in the National Film Theatre during the Congress and each nation has been invited to submit one.

SUNDAY BREAK FOR ARCHITECTS

Committee architecture, I hear, is going to get a boost from Denys Lasdun in next Sunday's "Monitor" programme on BBC television. I look forward to this even more than usual after all the things that have been said by me, Banham and others in the AJ recently. Let us hope our spokesman takes just enough of that thoughtfully-provided studio refreshment to forget our gimletty eyes without forgetting himself and betraying the secrets of the profession.

£3,000 AWARD

The JOURNAL'S collaborative programme of work with architects' offices to produce minimum reference systems of published information is the first and only attempt of which ASTRAGAL has ever heard to try to sift and sort the great mass of references which threaten to engulf the architect if he pauses to check a fact.

*

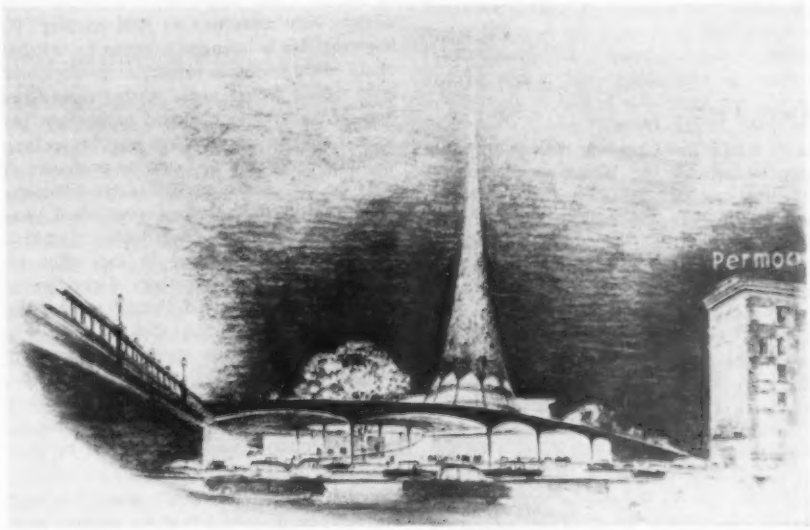
This opportunity for a mass assault on the problem merits active participation by all architects and architectural teachers, however great the pressure of work, because it can speedily result in greater efficiency in the profession. Offers to assist are still being received by the AJ Editors, but ASTRAGAL hopes that offices will encourage their staff to be seconded for a period so that they can receive the AJ Fellowships totalling £3,000. This means that recipients of the award have a job to return to when the work ends, and the office receives in return a man with greatly enhanced experience on technical information.

Applications for the £3,000 Fellowship should be submitted as soon as possible; and in any event not later than April 30. Here is a great opportunity for those who can grasp it.

ASTRAGAL

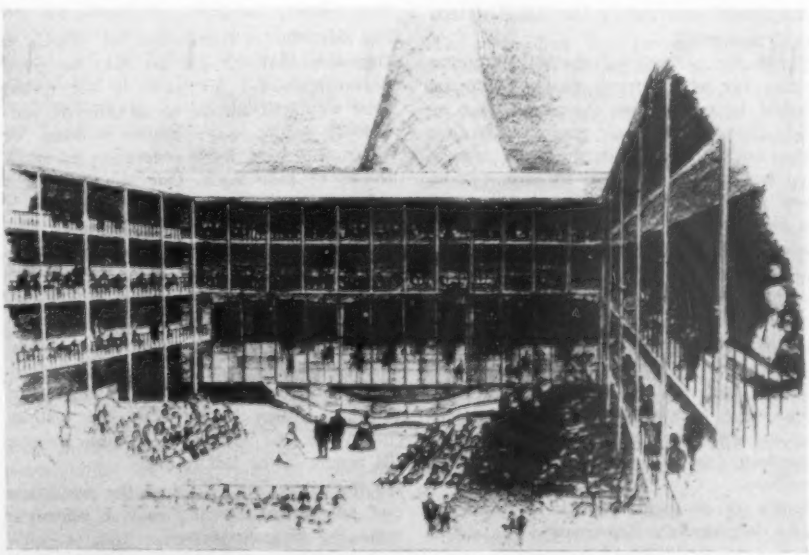


1. *Melbourne's proposed Art Centre—see "Nous aussi" alongside—a general view looking towards the city beyond the river. The copper spire contains restaurants, the hollow rectangle the National Gallery of Victoria, the triangular building on left, the new Art School.*



2. *From the bridge: car parking and three theatres are placed at this level.*

3. *A courtyard in the art gallery, with sliding roof open. The courtyards will be suitable for various uses.*



LETTERS

W. Cowan, A.R.I.B.A.

Fello Atkinson, A.A.Dipl., A.R.I.B.A.

P. E. Trench

Franta Belsky, A.R.C.A., A.R.B.S.

Otto Langmark, Dip.Ing.

K. Michaels

D. W. Wilcox

Morton Lupton

Sidney Loweth, F.S.A., F.R.I.B.A.

Two Tiers

SIR: I have been reading with interest the spate of articles and letters on the subject of Education and the Two Tier Profession and would like to make the following points:—

The Memorandum on Technical Assistants should be given far greater thought by its authors than it appears to have received. It is a document which has all the appearance of being the minutes of a cosy chat over a glass of beer between a few principals. It seems to have the interests of a section of the profession in mind and not the interests of architecture as a whole. To begin with it seeks to provide a two level entry to the profession with a lower and much inferior standard of education for those not considered good enough to provide "potential officer material." Its authors then appear to have had a twinge of conscience by deciding to leave the door to qualification "narrowly open" to the exceptional man among the ranks of technical assistants.

Would the authors of the Memorandum please say why entrants to the profession should be sorted into sheep and goats as soon as they finish their general education? Why not set one standard for all entrants and leave each individual to work out his own salvation thereafter in whatever way he pleases?

Secondly the technical assistant is to receive his training in an office with time off for day release or evening classes. Are the authors of this Memorandum satisfied that sufficient schools or colleges exist within easy reach of *all*? Even in England I doubt whether such facilities are generally available within easy reach. They are certainly not in the Highlands north of Perth or Aberdeen, with the sole exception of Inverness.

Thirdly it is suggested that a modified RIBA Intermediate Examination is suitable as a qualification for technical assistants. No indication is given of the modifications considered suitable. May the Memorandum's authors be asked why the Inter.RIBA should not be left untouched? If any official recognition for passing this examination is needed then the RIBA could surely award a certificate. If a student then wished to remain at this stage for the rest of his life it would be his own affair.

Fourthly the Memorandum suggests a lower standard of general education for technical assistants. This is surely wrong. If a technical assistant should be as skilled in technical matters as we are all led to believe then he ought to have as good a mental capacity as the man who is chosen as suitable for qualification. What is needed in my opinion is the same standard for all entrants to the profession with an emphasis on high standards of attainment in certain subjects of direct use to architects and assistants.

Turning now to the leader in your issue of March 9, the suggestion of a second skill sounds very attractive at first reading. If, however, this is intended to mean knowledge of an allied building subject at professional level then I feel it needs further consideration. If an architect wished to confirm his second skill in the obvious way by seeking membership of the appropriate professional body he may find himself in some difficulty. I understand that at least one allied professional body insists on potential members normally having worked in the office of one of its qualified members during training. If an architect or technical assistant is prevented from gaining diplomas for his second skill then his status therein could only be reckoned as "amateur" and may, in the last resort, be only of dubious value. Also after having qualified as architects, just how many could be expected to pursue a second course of study?

Finally it may prove a man's "second skill" to be so useful that his original profession would become overlooked. Would we then hear the cry that architects are not being used to the best advantage? It might be better to employ a tame expert in the office and leave the architects to their primary function.

The editorial in your issue of March 9, suggesting that the job architect be given responsibility for his work in the widest sense would, if carried to its ultimate conclusion, reduce any architect's office or department to a loose federation of small groups of individuals. One solution might be to admit all qualified architects in a private office to the status of partners. Just how that would work out is anybody's guess.

As for a public office the idea of a multitude of chief officers would be laughed out of existence by the councillors. It should be obvious that in any organisation somebody must be the boss and if this point is granted then he must be the one to "carry the can" and also the one to give the orders in the last resort.

On the subject of entry into the profession and subsequent training may I offer the following suggestions:—

(*a*) A uniform standard of general education for *all* entrants with emphasis on a high level of attainment in subjects of direct value in later training, such as Maths, Physics, Chemistry, Art and English.

(*b*) Standards of professional attainment to be fixed from time to time by the RIBA only, these standards to be kept under constant review to suit changing conditions.

(*c*) All entry to the RIBA and the Register of Architects to be via the Institute's examinations only.

(*d*) In order to achieve a higher standard of professional ability, and therefore to weed out all unsuitable candidates, those entrants having full time instruction be expected to pass the examinations at one sitting. All other entrants be given two chances.

(*e*) In order to ensure adequate practical experience all full time school entrants having passed the RIBA final examination be expected to spend five years in an office before election as ARIBA. All other candidates to spend two years in an office after passing the examination and before election.

As a matter of principle no professional body ought to divide its potential members into rigid classes. The organisation should, in my view, lay down its requirements and leave it to the individual to develop his talents as and where he likes. Only by so doing can each individual find his appropriate niche in the profession.

Just one last question. Why should it be considered beneath the dignity of a qualified architect (however newly fledged) to work under the direction of one of his qualified brethren?

W. COWAN

Conon Bridge,
Ross-shire

Tin Mine at Zennor

SIR: Mr. Kirkbride's letter shows why we are always so confused in matters of preservation. The choice is simple. Industry or a beauty spot. In the matter of Zennor we are thinking in terms of centuries perhaps, not decades.

Unemployment in many mining areas is also above the national average (which isn't high) and has been much higher, but is this permanent? Incidentally it doesn't prevent *skilled* foreign labour being needed in the mines. Many consider bullfighting demoralising. The Mormons considered mining demoralising; the morality of tourism is quite irrelevant. There is nothing absolute about mining, mines are liable to be worked out. Zennor may have been a thriving mining town, so was Virginia City, Ostia was a great port, Epidauros a great medical centre, what of it? It is just because ore deposits are not confined to "the less beautiful parts" that we must decide sometimes between beauty and hard cash. If they were all in the black country it would be easier. If there were not technical reasons for selecting Carnelloe the choice would be sheer criminal folly. Kirkbride should look more closely at Malaya. It is true that many of the present mines are being worked out

but there are vast untouched deposits. Malayan tin production is kept down by international quota agreement, *not* shortage of ore. Tin prices may be high now but why should they always remain so? They haven't in the past. All this is ephemeral and irrelevant.

The real choice is between industry and amenity. I am an unrepentant conservationist because I believe Zennor is of greater value than a few hundred tons of tin. Can anyone really believe that the situation would be more than slightly alleviated by "good architecture"? Sunila is a bulky sprawling factory; a little better perhaps (I suspect mainly to architects) than many other factories and just fine—at Sunila. Schinkel designed a palace on the Acropolis. It was very elegant but would have been a disaster—in Athens. All the roadscape, wirescape (God help us!) in the world and all the beknighted architects in the Kingdom, even if given their collective head, cannot alter the fact that industry is industry is industry (apologies to Miss Stein).

In truth we all know that the economics of mining and the demands of social planning (*i.e.*, space between buildings, road widths, etc.) would result in just another spoilt beauty spot. Kirkbride cannot fob us off with panaceas about visual control. We must choose, now and again, between beauty and coin—not absolutely but in each case on merit. Why not opt out of the 20th century once in a while? It makes the 20th century worth living in. We do it when we go to Salisbury or Delphi, the National Gallery or the theatre. Why should it always be left to foreigners to do the preserving for our pleasure?

FELLO ATKINSON

London

Better Offices

SIR: Astragal (AJ, March 30), referring to the recent publication on Better Offices by the Institute of Directors, says, "The average architect ought not to find anything particularly surprising in it. . . ." I agree he ought not—but he will, particularly the section on Costs by Cyril Sweett, which I suggest is the most informative article on cost planning for office building yet published. I might be underestimating the average, if so, I apologise.

PETER TRENCH

London, N.W.8

A full review of this publication will appear shortly in the AJ.

Running a Job

SIR: Criticism is more vociferous than praise and, to vary the pattern, this is to voice admiration for the idea of publishing Mr. Green's serialised handbook on how to run a job. This may hail from an unexpected quarter, a sculptor, for whom the architect is often the client.

Recently, the Council of the Royal Society of British Sculptors launched a sub-committee to study this very problem as it applies to sculptors and subsequently compile a pamphlet on administration and business methods. This is something we were never taught at schools and the price of acquiring the rudiments of businessmanship is meandering, misunderstanding, frustration and besides the loss of time and energy often a loss of part of one's fees. Yet, the clerical function of a sculptor is likely to become more frequent.

Your buildings, due to the economics of production and style and reasons well known to yourselves, are looking increasingly standardised, universal and devoid of the human touch and an antidote may well come from the signs of a new symbiosis between architecture and sculpture, in other words from co-operation between an unbusinesslike sculptor and relatively well-organised and punctilious architects, contractors, committees, councils and corporations.

The RSBS hopes that its pamphlet will be of huge importance to sculptors and we shall closely watch your instalments for analogies which would help us.

FRANTA BELSKY

London, W.8

Accessibility and Escalators

SIR: Most people will probably agree with Mr. Blachnicki's statement that the pedestrian deserves a better fate than . . . etc. (AJ, March 9), and the writer cannot but regret that town planning projects and proposals of the kind of Barbican are never examined in the light of *accessibility*.

To take an example. If you suggest the installation of escalators you are told immediately: they are too expensive. It is just a pity not to ask the question what is accessible, what is inaccessible, what is more accessible and what is less and why?

There is barely room to touch upon the subject here. The writer hopes to have shortly a 250-page treatise on accessibility published which, by the way, does not mention escalators. They might be costly, but they are the only means of making the pedestrian level *almost* as accessible as level +44 of Barbican. Does anybody realise that we are pitting here the muscle power of the pedestrian leg against the horse power of the engines?

We are employing many thousand horse power in the buses of Route Eleven (to say nothing of the Tubes), to establish a high accessibility of the lower levels (level + 44). Is anyone aware that without escalators we are keeping the pedestrian levels inaccessible?

O. C. A. LANGMARK

London, S.W.5

Skidmore or Less

SIR: From the limited information you gave describing the new Birds Eye headquarters (AJ, April 6), it looks as if this project has a fair chance of being one of the first examples in this country of an office building which is a prestige job entirely on the basis of providing the occupants with the best possible working conditions, plenty of daylight, individually controlled air-conditioning units, and so on. What a pity, therefore, that in chatting about this job Astragal, the poor mixed up kid, could not get much further than the exterior (and the fact that it was air conditioned). And in any case, I can't really see that the term he used, "Reinforced Venetian Gothic" is in the least relevant.

K. MICHAELS

London, S.W.1

Potters Bar Society

SIR: In the middle of lush, undulating, green fields and old trees lies the puddle of small bungalows, large garages, and unplanned sprawl of Potters Bar; bisected by British Railways, graced architecturally with a decent station, but otherwise nude of aesthetic feeling.

Living here are a number of professional men who have staked much on the formation of the Potters Bar Society, founding it on the work of The Civic Trust; a Society at present rich in brains and integrity, and poor as a church mouse in cash.

What we want is to increase the nucleus by the addition of town planners, qualified and student architects, a good perspective artist, and of course any honest man or woman not entirely devoid of sensitivity.

In the event that the AJ might penetrate into these wilds, I would appeal to those who may be stirred by this impassioned cry, to come to our aid.

D. W. WILCOX

14, Santers Lane,
Potters Bar

Dibley's, Blewbury

SIR: We were very pleased to see your very kind notice of our community scheme at Blewbury, Berks, in the April 6 issue. However, there is a correction which ought to be made: the scheme is not sponsored by Townmaker Ltd., but by Mr. and Mrs. F. S. V. Donnison, the present owners of the house, Dibley's.

MORTON LUPTON

Wallingford, Berks

"The Reynold's Club"

SIR: This club was formed some years ago and meets periodically at the Royal Academy, Burlington House, Piccadilly.

The Honorary Secretary is Miss J. W. Thompson of 28, Smith Street, London, S.W.3, who would be pleased to hear from any ex-architect students of the Royal Academy Schools.

The annual subscription is nominal and the meetings consist of four or five per year and include a dinner at Burlington House, film shows and special tickets for RA Exhibitions, etc.

At the Annual General Meeting the chairman commented upon the fact that few of the ex-architect students seemed to be aware of the existence of this club, so will those students who are interested please contact the Hon. Secretary in the not too distant future?

SIDNEY LOWETH

Folkestone, Kent

NEWS

NEW NEWCASTLE

Traffic Segregation Scheme for City Council

This is the plan that edged Major Gagarin's little trip out of the headlines in the local papers last Wednesday. "On the day of man's supreme achievement," said the *Newcastle Evening Chronicle*, "comes news of the Space Age city." The plan does in fact provide the opportunity for showing that twentieth-century traffic flow and a magnificent medieval and early Victorian city can be harmonised. Whether that opportunity is realised depends, of course, on the architecture: all that we have here is a plan, made clear in the illustration below.

But the remarkable thing is that this plan by Newcastle's planning officer, Wilfred Burns, in consultation with other departments of the Corporation, does not scupper the city's chances from the start, as many plans do (for example, on a rough estimate, almost any self-respecting inner ring road can be guaranteed to remove about 25 per cent of a town's good buildings). In what must be one of the most difficult of cities, a complete system of urban motor roads has been fitted in, with only one intersection to worry about seriously.

Newcastle has the unenviable distinction that the Great North Road is its main shopping street. To deal with this two north-south roads would be built needing a new bridge over the Tyne (Redheugh) on the site of an existing one. These roads will be for motors only without any buildings fronting them, and will pass through hardly any areas that are not already derelict or decaying—a paradoxical reward for a good many years of lethargic administration.

Linking these two are a pair of east-west motor roads: the upper one will be underground, with one of the main new shopping areas above it; the lower will run about half way down the steep slope to the river which makes Newcastle such an exciting place. This seems a terrifying idea until one walks round the proposed route and sees that it is not only possible but, if well done, could add to the Newcastle riverside tremendously, by providing another element in the fantastic game of leapfrog that roads, railways and chases play on the Tyne slopes. The one point which will have to be watched is the intersection with Sandhill, a street still in good condition (most of the riverside is like a Piranesi drawing—and contains some very good buildings). This is going to be a tricky job and it would be worth spending a lot of money to make sure that the road goes exactly where it ought.

Inside the motor road ring, pedestrian precincts, a few local roads, flats above new shopping centres, while the set piece streets and buildings are retained, the whole area around the Grey Monument is proposed as a pedestrian area, keeping the existing buildings and streets but creating a magnificent piazza.

The chance of fulfilment of the scheme will depend first on the successful acquisition of land at the city centre, or wholehearted co-operation by those wishing to develop it; then it is up to the architects, who, on the strength of this report, should have a free hand unhampered by too many pettifogging stipulations about sight lines, setbacks, and so forth.

The city and its officials evidently want an exciting new component added which will match the fifteenth-century and nineteenth-century parts of Newcastle, and make it work today: it is up to our profession to see that they get it.

IAN NAIRN

NOTATION

- Shopping
- Offices
- Warehousing
- Warehousing & Industry
- Civic
- Education
- University
- Government Buildings
- Boundary of Central Area
- Car Parks
- Bus Stations
- Central Motorways
- Major Routes
- Pedestrian Routes
- Major Traffic Intersections

1 Hancock Museum
2 St Thomas' Church
3 City Hall
4 St James' Park
5 St Andrews Church
6 Manors Station
7 St Nicholas Cathedral
8 Central Station
9 New Redheugh Bridge
10 High Level Bridge
11 Swing Bridge
12 Tyne Bridge
13 Claremont Road
14 Great North Road
15 Jesmond Road
16 New Bridge Street
17 City Road
18 Barrack Road
19 Westgate Road
20 Westmorland Road
21 Scotswood Road
22 Newgate Street
23 Grainger Street
24 Northumberland Street
25 Grey Street



MARCH 1961
SCALE 1/5000

W. BURNS, A.M.I.C.E., A.M.T.P.I.,
CITY PLANNING OFFICER
NEWCASTLE UPON TYNE 1.

OBITUARY

Professor Frederic Lasserre

Frederic Lasserre, who was killed on April 6 while climbing in the Lake District, was Professor and Director of the School of Architecture at the University of British Columbia, and was an authority on timber construction, on which he had done considerable research and lecturing. He visited Britain in 1955 at the invitation of the British Columbia Lumber Manufacturers Association to give a series of lectures on timber frame housing.

Professor Lasserre was only 50. He was born in Geneva and went to Canada in 1921. After graduating from Toronto University he returned to Switzerland to complete his studies and then worked as an architect in England from 1936 to 1940. He was a co-designer of the Mars Group exhibit of 1938 and a prizewinner in one of the pre-war housing competitions organised by the Timber Development Association. During the war he served at Canadian naval HQ as a senior architect in charge of a number of projects.

At the time of his death Frederic Lasserre was in England on a year's leave. The accident occurred at Pavey Ark in the Langdale Valley near Ambleside, when he fell 300 feet down a sheer precipice. He leaves a widow, a son and a daughter.

HOUSING CENTRE

London's Housing and the Royal Commission

Sir John Wrigley, member of the Royal Commission on Greater London (and one time deputy secretary of MOHLG), gave a talk at the Housing Centre on April 11th on how the proposals of the Royal Commission would affect London's housing problems.

After skimming through the Royal Commission's brief, to examine each function of local government in Greater London, discover defects, consider how far these were due to the machinery itself and made recommendations for improvement, Sir John concentrated upon how housing—the most pressing social problem in the area—would be dealt with under the proposed reconstruction.

He explained that it was considered that all functions and services "of a personal nature, involving careful casework" should become the responsibility of the new boroughs, enlarged by amalgamations to be the size of county boroughs. Only those services requiring consideration of the area as a whole —Intelligence Department, revision of the Greater London Plan, and traffic and main roads—would be the responsibility of the Greater London Authority.

Outside London, the boroughs and not the county authorities were responsible for housing: Sir John maintained that the same system should now be adopted for London itself, because "historical reasons here have ceased to be operative." However, Greater London could not be dealt with entirely in that way, first because of shortage of land and the need to plan concurrent movement of population and industry; second because of the great differences in availability of land between different boroughs. The New Towns and Town Development Act to enable overspill to be planned were designed to deal with this.

"Nobody can have worked harder than the LCC to bring such schemes about," said Sir John, "and with considerable success. Through no fault of their own they were responsible for only part of the area." A Greater London authority must be responsible for such large-scale operations.

When questions came they were largely concentrated round the problem of whether and how the prosperous, low density boroughs on the periphery of Greater London could be persuaded willingly to accept higher density to accommodate people from the overcrowded inner boroughs. To all these questions Sir John's reply was that there must be "mutual arrangements between those rich in land and those poor in land," but that finally, "if the boroughs don't play the game" it would for the Greater London authority to determine densities, under the Development Plant, and it might be necessary to have right of appeal to the Minister. He hoped Londoners would learn to "give and take."

The problem of depending on "mutual arrangements" however was clearly and unintentionally demonstrated at the end when the last question came from a lady from "an outer borough" who asked, "Why should we have *these people*? It sounds rather like dictatorship to me."

MOH

Nurse for Hospital Planning

The Ministry of Health has appointed Mrs. Jean Heyward, S.R.N., R.M.N., as a part-time temporary nursing officer to help on hospital planning and equipment. Mrs. Heyward was the nurse member of the Division of Architectural Studies of the Nuffield Foundation, and was closely associated with the planning, construction and use of experimental hospital units in Scotland and Belfast.

PRISON DESIGN

International Study Group

An International Study Group on the design and construction of penal and correctional institutions is to be held at the Architectural Association immediately after the IUA Congress in London, from July 10 to 14.

An exhibition is to be staged in conjunction with the study group to illustrate recently-completed institutions and future projects from the countries represented and a small section of this exhibition will be devoted to designs and projects prepared unofficially by private architects and students.

The secretary of the Study Group, Mr. Leslie Fairweather, would be pleased to receive details from any architect or student who would like his work to be considered at 3, Halsey Street, S.W.3.

ST. ANNE'S COLLEGE

A Phased Rebuilding Plan

St. Anne's College, Oxford's youngest and largest women's college, last week published its plans for the complete rebuilding of its residential accommodation in the course of the next few years, to a phased plan designed by W. G. Howell, H. A. W. Killick and J. A. Partridge. The College is to build on its present site, near the confluence of the Woodstock and Banbury Road, and the time taken will depend upon the response to the Appeal which is to be launched shortly. The first phase, however, is to start immediately, paid for by the gift of £80,000 from the Isaac Wolfson Foundation.

This is to be used to replace the first of the large Victorian houses on the site, in which 18 students and staff are accommodated at present, with a block of 45 study-bedrooms, two Fellows' flats, and two common rooms, thereby solving the decanting problem which will face the college throughout the rebuilding.

Two existing buildings will remain: the pre-war building by Sir Giles Gilbert Scott, which contains the library, common rooms and administration, rectangular, baronial and battlemented in a rather yellow stone already acquiring a period look, and the post-war dining hall by Gerald Banks. The architects aim to respect these buildings without imitating them by adopting a similar height and scale for their buildings, apart from one tall block of study bedrooms at a later stage of the scheme. Because of the unknown, and in any case long-drawn-out, time schedule necessary, it is planned to build each new stage as a separate block, so that each will be complete in itself, setting the blocks in an oval curve, to enclose most of the college gardens, and linking them together with a covered way, "like beads on a necklace"—or a modern version of the cloister.

The fact that rebuilding may take 15 years has created problems, since it precludes any design which would commit the College years in advance to a rigid scheme which might be outdated by changing requirements or building techniques. The plan is therefore only an outline development plan, which has the approval of the RFAC and Oxford City Council, and future blocks can be modified at each stage of the work. The architects are using this fact positively, to treat St. Anne's as what they call "a miniature development programme," conducting stage by stage research into the needs of the undergraduates and feeding back the results in modification and improvement block by block, and a mock-up study bedroom is now being built in the grounds, where experiments in lighting, furniture arrangement, colour schemes, storage facilities, e.g. the problem of concealing fitted washbasins, will be made, and consumer reactions collected.

The Wolfson Block

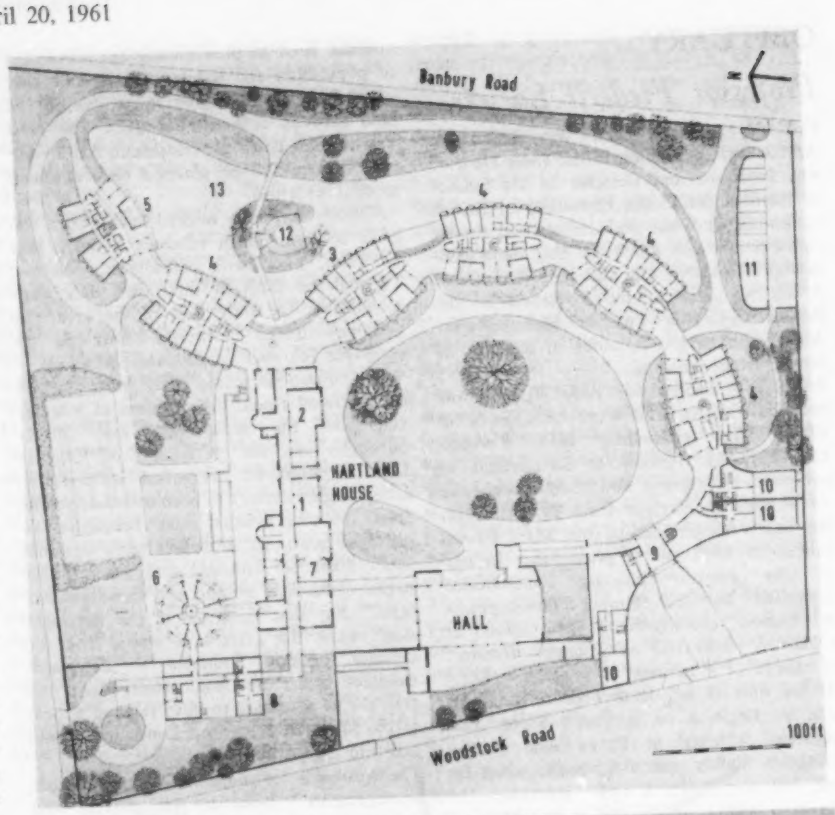
Building of this block is to start this year, and will provide 45 study-bedrooms, two

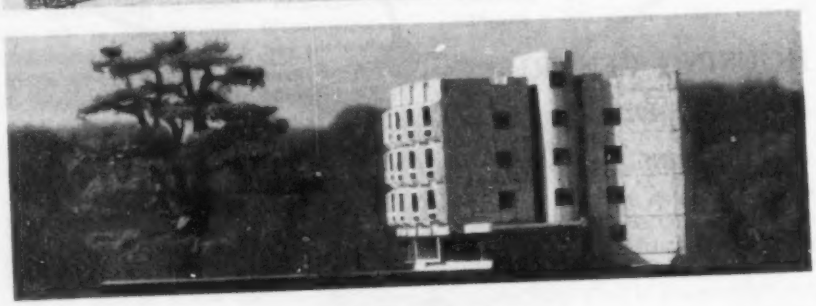
flats for Fellows, and a large and small common room, which members of the College can borrow for parties—a necessary feature, since the studies are really too small for entertaining. These will be on three floors, grouped round a circular staircase, and the block will repeat the oval shape of the whole scheme.

The architects claim that this block shape solves the old problem of staircase or corridor approach, neither of which they consider satisfactory, since the staircase does not allow enough rooms to be grouped round it, and bathrooms are a problem, while the long corridor has a horribly institutional look. Here 14 rooms on each floor, with bathrooms, lavatories, showers, two kitchenettes, a laundry and a trunk store forming the central core, will be linked to the sweeping staircase by short, curved corridors. The curve of the building means that the side walls of each room will be slightly splayed, but the amount is so small that it is expected to be imperceptible within, and will not make furnishing difficult.

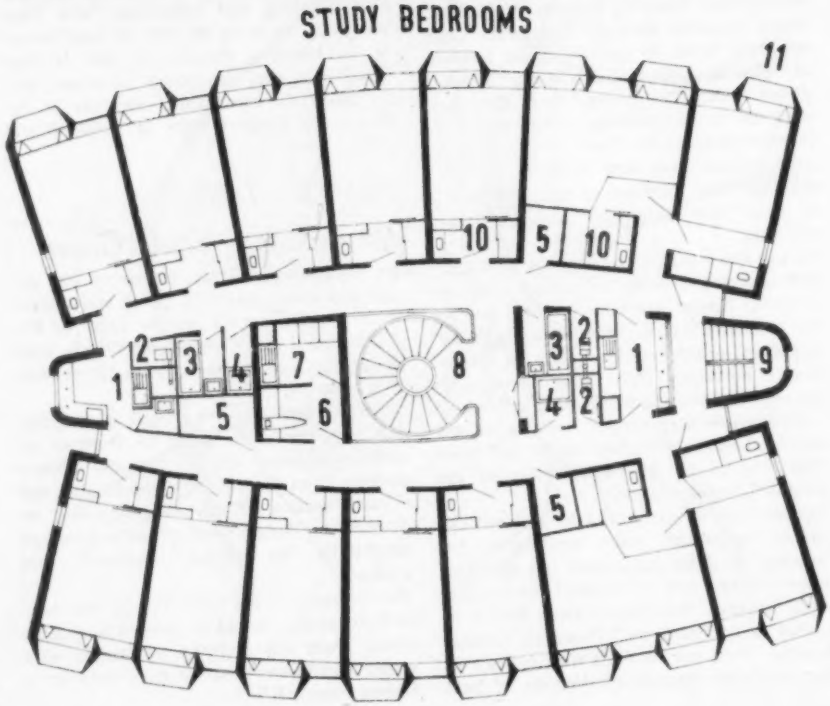
The architects plan to give the exterior of these buildings a highly modelled surface by the use of precast concrete units, which they claim will be in keeping with many of Oxford's buildings (and incidentally with the taste of this particular group of architects), with the idea of avoiding the "barrack-block feeling" of a wall of masonry pierced by little windows. Each study-bedroom will have a balcony made of one large pre-cast element and the building will be faced with pre-cast concrete units, from whose surfaces the cement has been removed to give a rougher and more congenial surface.

The building will overlook the fine existing lawn where a splendid cedar and copper beech will be retained, and on the other side, Howell, Killick & Partridge plan for a sizeable lake, filling the distance from the building to the Banbury Road boundary wall, with an island in it on which is to be sited a music room. Which suggests that swimming is to be added to climbing as an accomplishment of all spirited undergraduates.





Top, the Development Plan
Centre, model of the Wolfson block from the south-west
Right, typical upper floor plan of the Wolfson block



SITE PLAN KEY
1. Senior Common Room
2. Junior Common Room
3. Wolfson Building
4. Further 4-storey blocks
5. 11-storey block
6. New Library and teaching
7. Existing teaching space
8. Principal's House
9. Gate-house and lodge
10. Married domestic staff patio houses
11. Garages and bicycles
12. Music Room
13. Lake

UPPER FLOOR PLAN KEY
1. Kitchenette
2. W.C.
3. Bathroom
4. Shower
5. Trunk store
6. Ironing room
7. Laundry with drying cabinets
8. Main staircase
9. Escape stair
10. Lobby to study bedroom with basin and clothes storage
11. Balcony with sliding-folding french windows

ARCHITECTS' T.U.

Registration of Association of Official Architects

The A.O.A., which was founded in 1958 to represent the interests of architects in local government and public services, has achieved success in two of its prime aims: the setting up of a new Grading Sub-Committee for the professions in the Local Government Salary and Services Negotiating Machinery, on which the Association is represented; and the certification of the Association as a trade union by the Registrar of Friendly Societies.

In its latest newsletter to members, the A.O.A. records its opinion that "the present shortages of architects in local government arise from (*a*) the failure of employing authorities to differentiate between the professional and administrative officer, (*b*) the inadequate salary level, and (*c*) the multiplicity of grades."

"The architect's problems, his general and higher education and general day to day interests, as well as responsibilities, are basically different from his administrative colleagues, yet none of these are taken into account to differentiate between them in conditions of service."

The A.O.A. demands separate negotiations for the professional officer and points out that "the recent award of the industrial court of salary increases in the hospital boards and . . . for the Civil Service are the most recent independent assessment of appropriate salary levels for architects in public employment."

While today there are 12 grades below the level of deputy chief officer in which architects may be placed—which leads to "the trek from authority to authority to achieve promotion"—the A.O.A. proposes only two grades for architects, a main grade to include all qualified architects, with a scale of £1,000 to £1,750 p.a., and a grade called principal architect, on two scales because of the varying size of local authorities: from £1,950 to £2,250 p.a., and from £2,250 to £2,500 p.a.

The election of regional members to the General Council is going on this month and the Annual General Meeting is to be held on May 13.

COMPETITIONS

CoID British Poster Design Awards

The Council of Industrial Design has announced the names of the judges for the 1961-2 British Poster Design Awards. They are:—

Christian Barman, R.D.I., F.R.I.B.A., F.S.I.A., chief publicity officer to British Transport Commission.

James Fitton, R.A., F.S.I.A., designer.

Milner Gray, R.D.I., F.S.I.A., A.G.I., Design Research Unit.

Paul Peter Piech, F.I.A.L., M.F.T.D., art director of Service Advertising Co. Ltd.

R. Geoffrey Smith, joint managing director, W. S. Cowell Ltd.

A maximum of 25 awards will be made, and entries, which can be made by the advertiser, advertising agency, designer or printer, should be submitted to the CoID between April 1 and April 30, 1962.

Entry forms and full details are available from Mrs. C. Mill, CoID, 28, Haymarket, London, S.W.1.

Fourth International Furniture Competition

For the fourth time since 1955 the Italian Ministry of Foreign Commerce at Cantu, the centre of the Italian furniture trade, is organising an international competition in furniture design, and this year for the first time an Englishman, Sir Gordon Russell, has been invited to serve as one of the judges, along with Professor Arne Jacobsen, Ignazio Gardella, Carlo de Carli and Professor Norberto Marchi.

The Selection Committee at Cantu, in inviting architects, designers and technicians to take part in the 1961 competition, points out in a Press statement that Cantu "produces furniture mainly by home industry" and therefore designs submitted for consideration should be for craftsman-built, not mass-produced, furniture.

The value of the prizes for selected designs is 12 million lire, and by a modification of previous rules of the competition, prize-winning designers may stay in Cantu to supervise the production of their designs.

Full details are available from Mostra Selettiva e Concorso Internazionale del Mobile, Cantu, Italy.

Developers' Competition Extension, The Rocks, Sydney

The Government of New South Wales announced last week that the closing date for receipt of offers and development schemes for the development of "The Rocks," Sydney (published AJ 15.12.60), has been postponed to October 31, 1961. The original closing date was August 31. New South Wales's town planning chief, Mr. N. A. W. Ashton, will be in London from May 13 to 25 to "assist with any queries on the project that may need clarification," and will be available at the New South Wales Government offices at 56 Strand, London, W.C.2.

Architecture and Town Planning at the Eisteddfod

The Eisteddfod includes competitions in architecture, town planning and civil engineering in its Arts and Crafts Section this year, as follows:—

A design for an indoor swimming bath for a town with a population of 50,000, open to all architects. Prize, £50.

A competition for architectural students for a design for a four-bedroom house, with a connected dwelling house for an elderly person. Prize, £25.

A town planning competition, for a sports stadium. Prize, £50.

Adjudicators in all three: A. G. Sheppard Fidler, M.A., B.Arch., Dip.C.D., A.M.T.P.I., and H. Anthony Clark, F.R.I.B.A., President of the North Wales Architectural Society.

A similar prize of £50 is offered for a plan of a road bridge crossing a river with a span of 80 ft. and a width of 40 ft., made of reinforced concrete. Adjudicator, Meurig Davies.

Closing date for all entries to the Eisteddfod (which takes place from August 7 to 12) is June 17: further details and entry forms from the General Secretary, John Roberts, Swyddfa'r Eisteddfod, High Street, Rhos, Wrexham.

PLANNERS' HOLIDAY

Architectural Tours

Two holidays for specialists this summer, are being organised by the Wayfarers Travel Agency, to enable architects, planners, builders, and construction engineers to see what is going on in their own fields in the Soviet Union and Czechoslovakia.

Lasting 14 days, a Modern Architecture and Construction Tour of the USSR is to visit Moscow, Leningrad and Kiev. And an Architecture and Town Planning Tour of Czechoslovakia will take the specialists to a wide range of planning and construction projects, design centres and institutes, in Prague, Bratislava and many other cities for 15 days.

Details of both tours may be obtained from the Wayfarers Travel Agency, 20, Russell Square, London, W.C.1.

DIARY

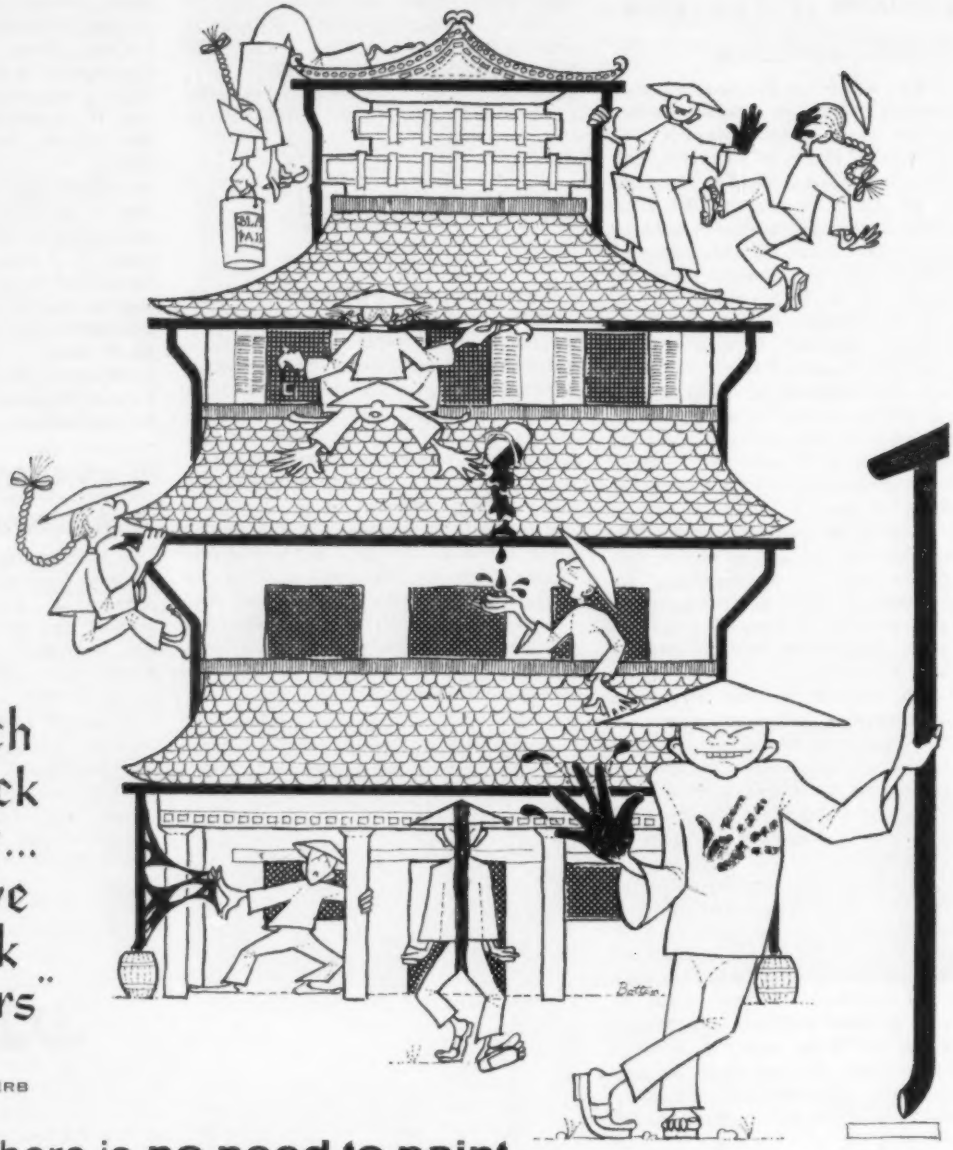
Records of the Metropolitan Board of Works introduced by Ida Darlington, MA, FSA, FLA, RIBA Library Group Meeting at 66, Portland Place, London, W.1, at 6 p.m. APRIL 24

Magnet Paint: Colour film by Association of Lead Manufacturers Ltd. Bristol Building Centre, 1.30 p.m. APRIL 25

Testing for Consumers by Consumers: or the Tethered Goat: Caspar Brooks and David Vickers. AA General Meeting at 8 p.m. APRIL 26

Lighting for Work: Two lectures organised by the British Lighting Council in association with Manchester Productivity Association at Manchester Building Centre. Speakers: J. S. Smyth, B.Sc., A.M.I.E.E., F.I.E.S., and W. Robinson, B.Sc., A.M.I.E.E., F.I.E.S., at 4.0 p.m. APRIL 26

The Appreciation of Design Today: One-day course at University of Nottingham Institute of Education in co-operation with the CoID. Details from the Institute. APRIL 29



"touch black paint... have black fingers"

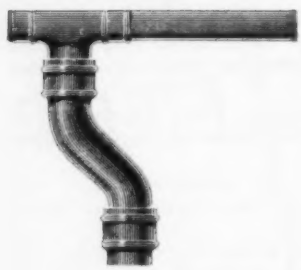
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Boston Hospital Competition

As we announced last week, the second stage of the competition for a new general hospital at Boston, Lincs., organised by the Sheffield Regional Hospital Board (Regional Architect E. F. Wilson), has been won by Design Partnership, who will receive the first premium of £2,000. The partners concerned were G. Grenfell Baines and John Wilkinson, in association with Brian G. Cobb. The remaining five finalists, who each receive a premium of £500, were Charles B. Pearson, Son & Partners, V. J. Sames, John R. B. Green, Charles H. Hyde and Clifford Kingstone. The assessor for the second stage, S. E. T. Cusdin, OBE, FRIBA, who replaced John Murray Easton for medical reasons, highly commended the entry by Charles B. Pearson, Son & Partners. This week the drawings are on show at Fydell House, South End, Boston, and they will be displayed at the RIBA from April 26 to May 13. The assessor's report has not been published at time of going to press.

Curiously enough, this country is now in the early stages of a large and long-overdue programme of hospital building at the very moment when the concept of the general hospital as a building type is undergoing a quite rapid change. This is in part due to the fact that it has only been possible in the last few years to test out on any scale the results of post-war research by such voluntary bodies as the Nuffield Trust and the King Edward VII Hospital Fund. At the same time, it is only much more recently that MOH have been able to start publishing recommendations to the architect in the form of Building Bulletins and Building Notes. More important, perhaps, from the architect's point of view, is the fact that a much clearer idea is beginning to emerge from the Health Service as to what the main features of a general hospital should be, not just now, but in 20 to 50 years' time. These are general concepts which can shape and determine the planning of a complex of vast, widely varying, and often conflicting requirements. Not that they have yet been very clearly or concisely stated, largely because research so far has concentrated mainly upon various sectors of the building, such as the operating theatre, the ward or the technique of central sterilisation, and has not thrown up into clear relief the issues which can tend to shape and make comprehensible the building as a whole.

Most important of these ideas is the concept that the general hospital should provide a balanced service to the community, treating the mentally as well as the physically ill, the chronic sick as well as those who will stay for only a very short period in hospital, and providing a much increased volume of outpatient treatment so that it can do more to augment the work of the general practitioner. At the same time by the use of new techniques, a far higher proportion of patients can now be treated in the outpatient department rather than occupy hospital beds.

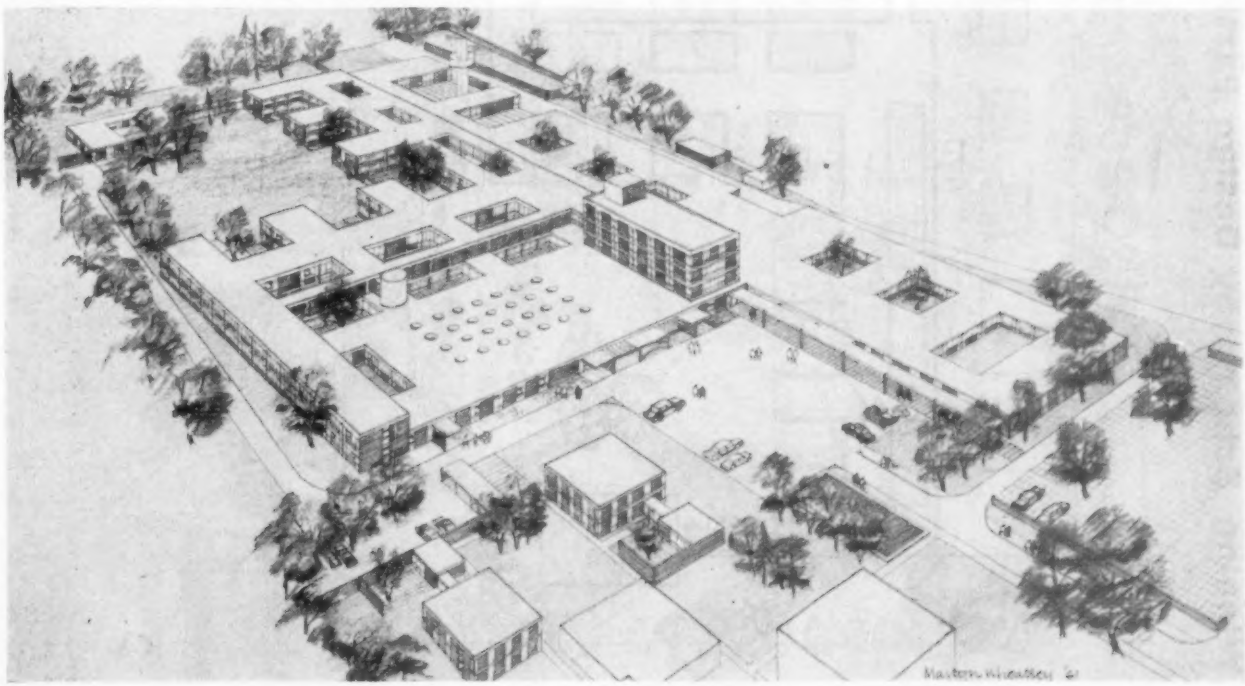
This implies a building which is designed much more closely for the patients, rather than a mere place for medical treatment, a building which by its very design and layout is readily approachable and somewhat domestic in character. This is echoed in the more enlightened approach of some of the hospitals in this country, a recognition that there is a distinct advantage if the environment of the patients resembles as closely as possible their homes, so that there is not an excessive change between the two. The way in which the stream of visitors is handled is also important, that their impression too should be of a friendly, small-scale building.

This implies the disappearance of such things as vast, imposing tall blocks, cramped entrance halls, and the endless and incomprehensible maze of corridors.

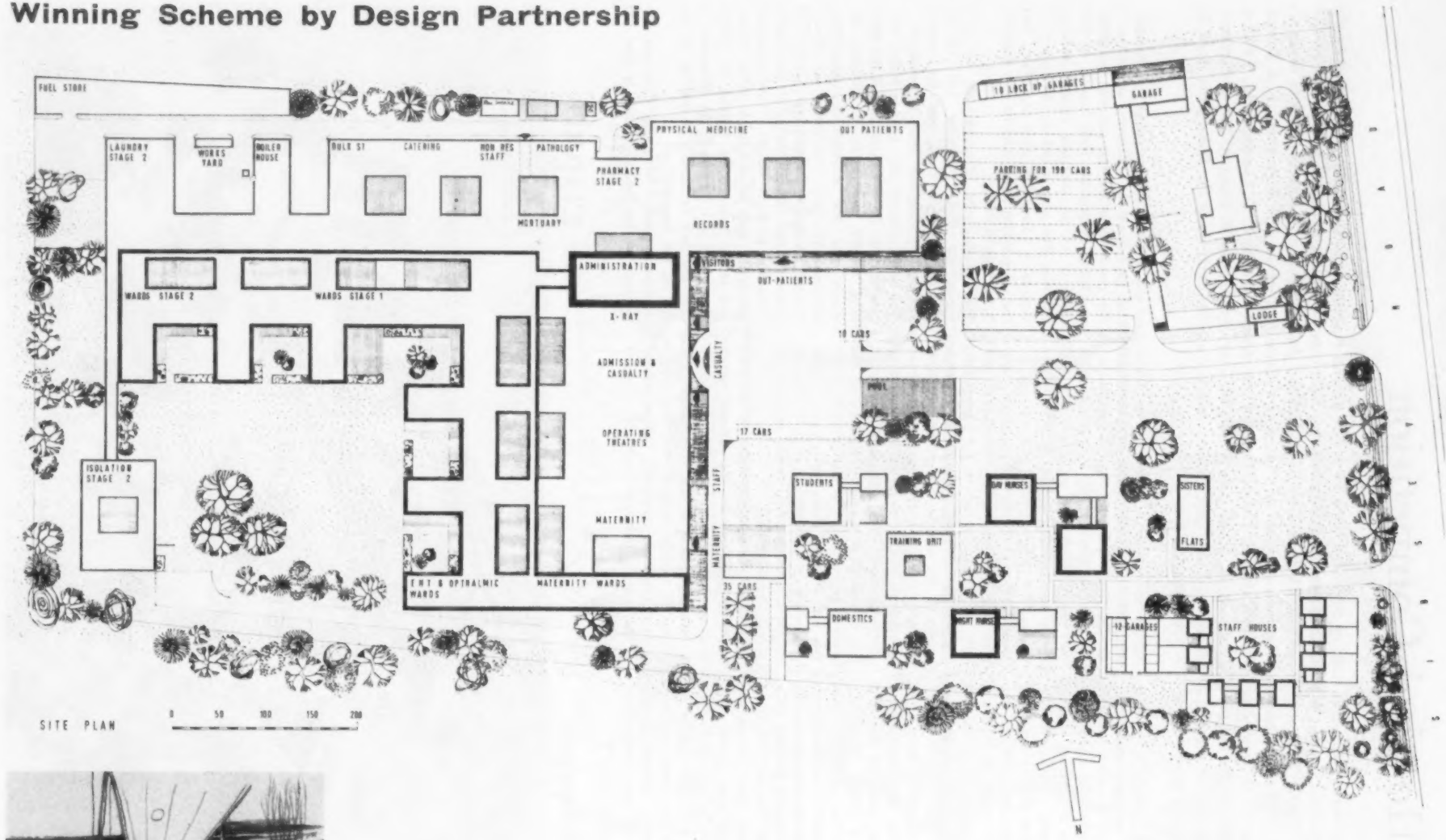
This same concept also gives a broad indication as to the broad pattern of the planning, as two main areas for patients, the wards and the out-patient department, serviced by such ancillaries as X-ray, clinical laboratories, operating theatres and administration, which should all be readily accessible to both sectors. The remaining ancillaries such as kitchens, boiler house and stores have to be related to vehicle access, but it is obviously an advantage if they too can be readily accessible to the rest of the hospital.

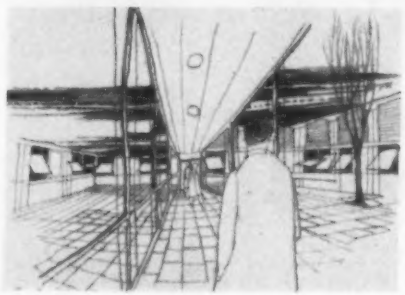
A second concept emerging from the experience of the health service is that the

Perspective drawing of the winning scheme

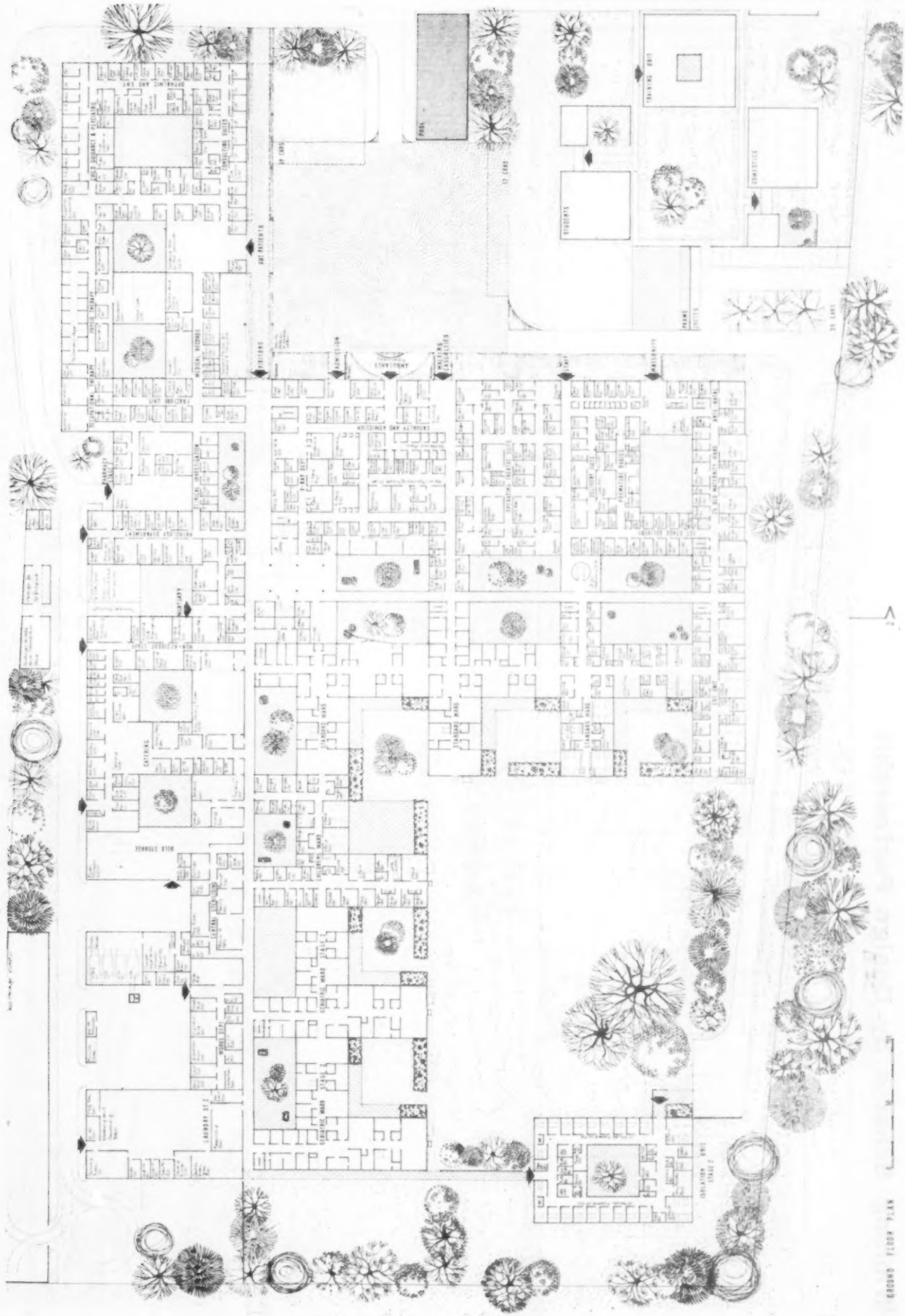


Winning Scheme by Design Partnership

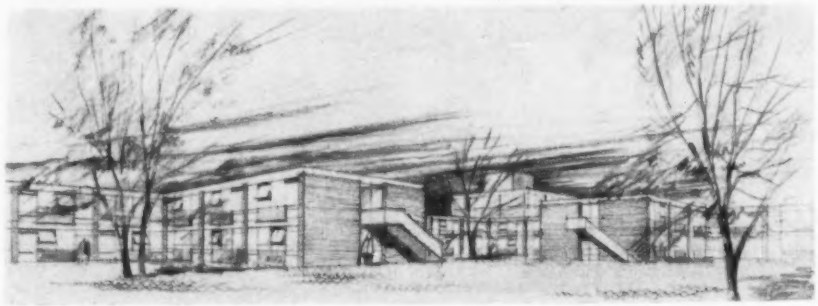




Block plan above; sketch of typical "hospital street" left; ground floor plan, opposite page

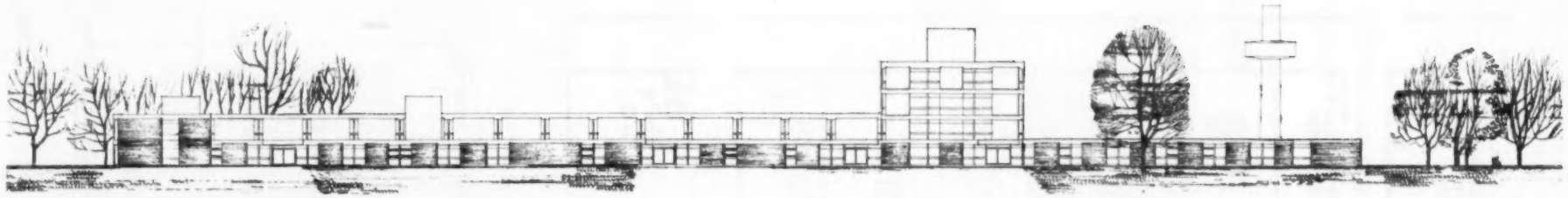

GROUND FLOOR PLAN

Winning Scheme by Design Partnership

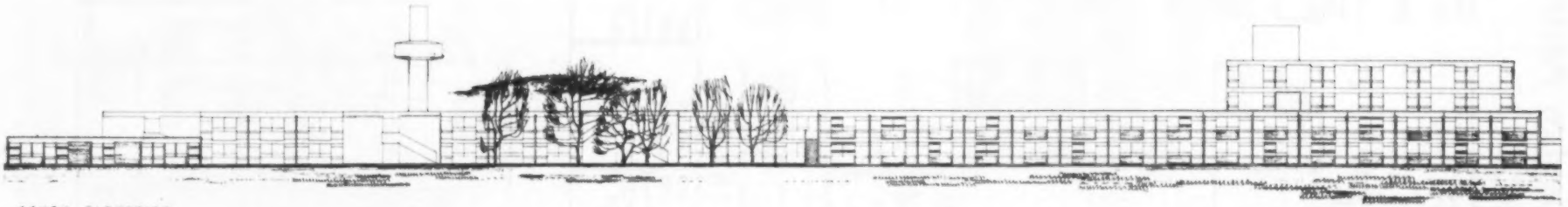


First floor plan and (left) view o wards from south-west

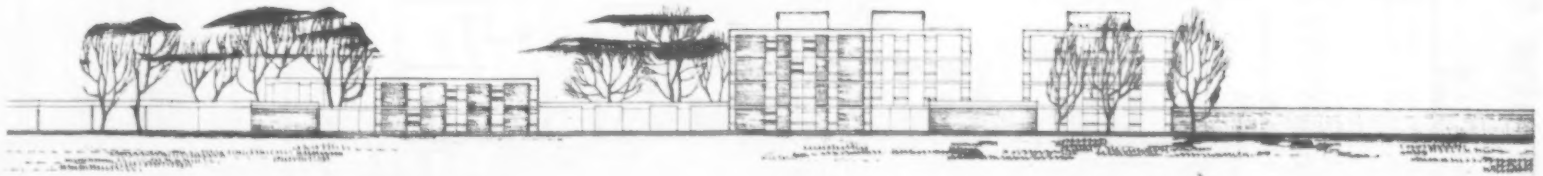
East and south elevation of hospital, and (bottom) south elevation of residential blocks



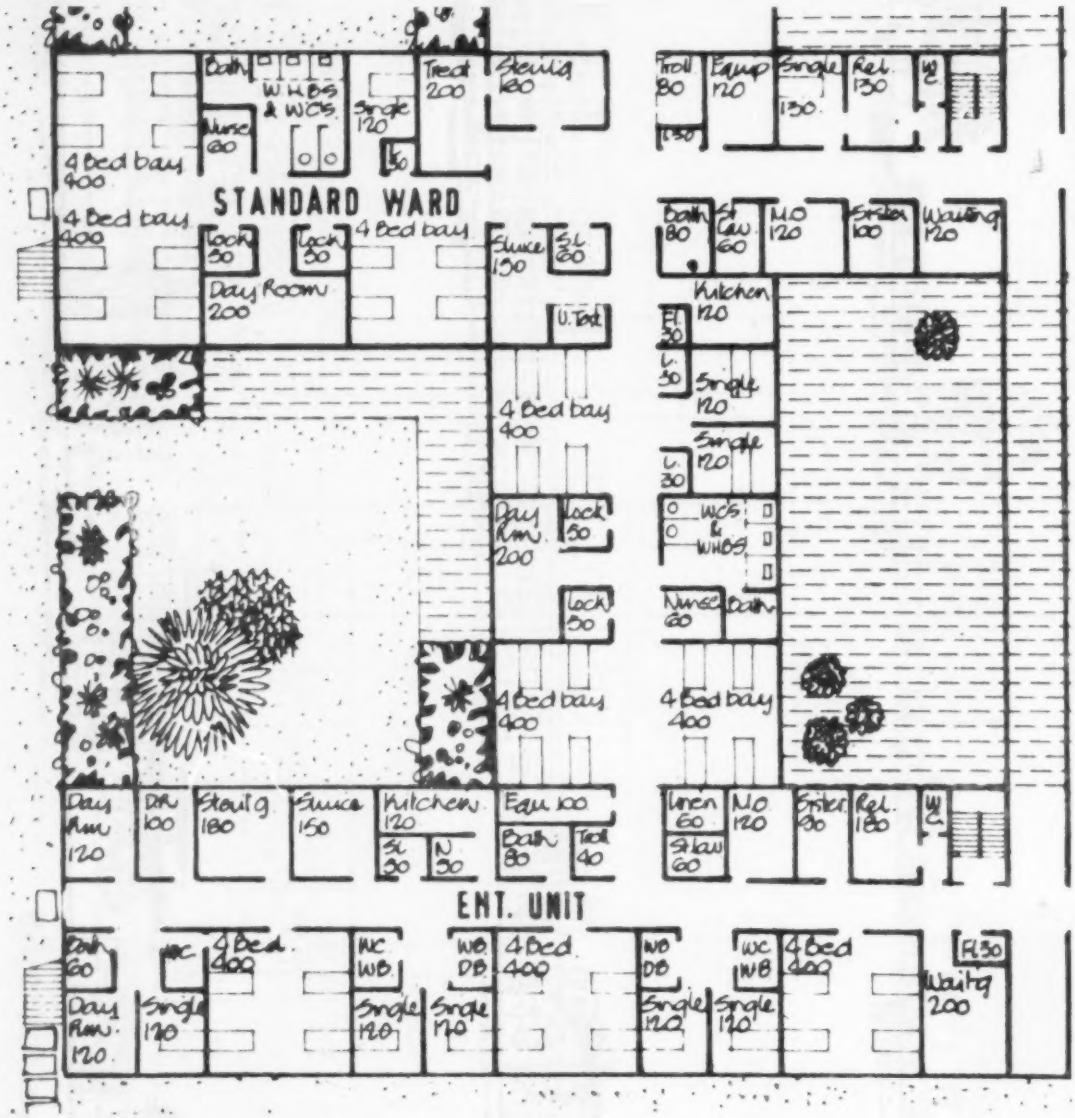
EAST ELEVATION



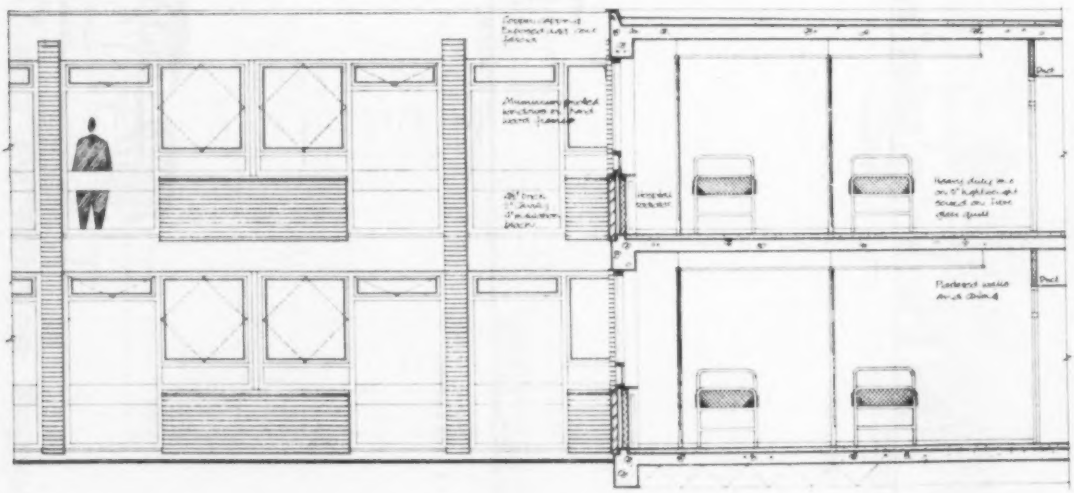
SOUTH ELEVATION



Winning Scheme by Design Partnership



Detail of typical ward planning (above), scale 25 feet to one inch, and (below) typical elevation and structure, scale 8 feet to one inch



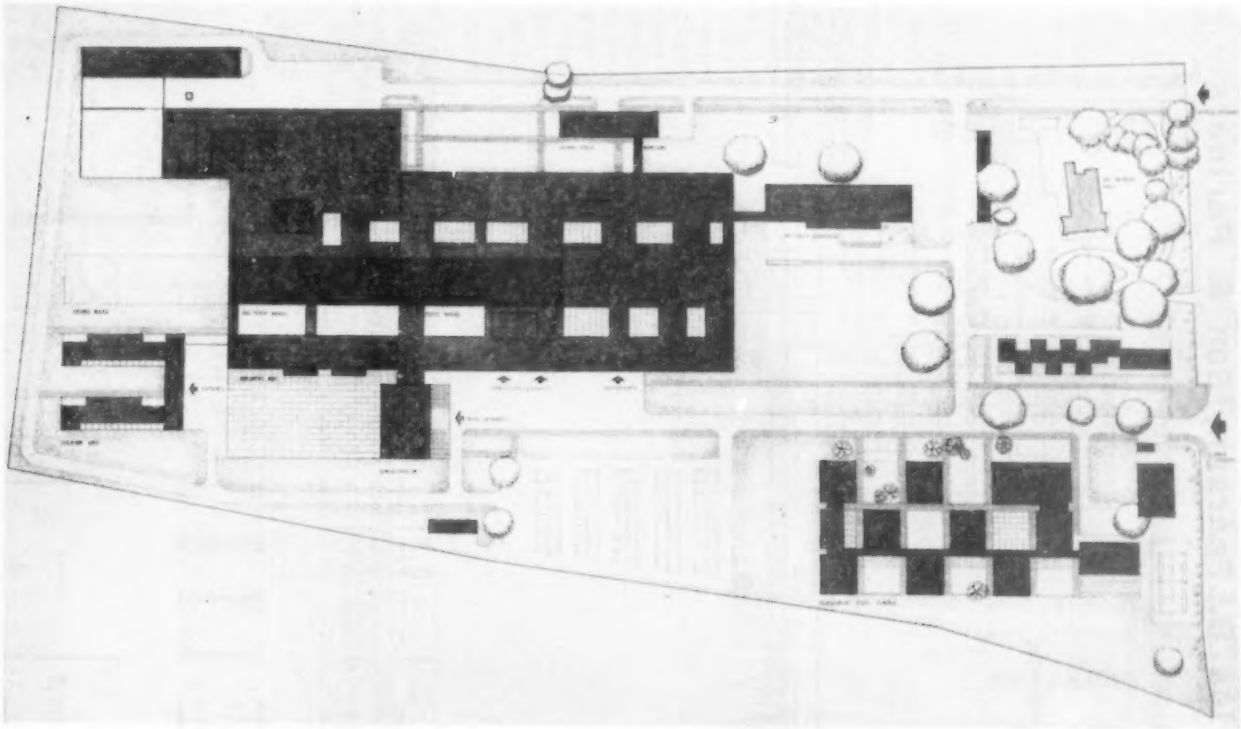
SOUTH ELEVATION OF E.N.T UNIT.

SECTION

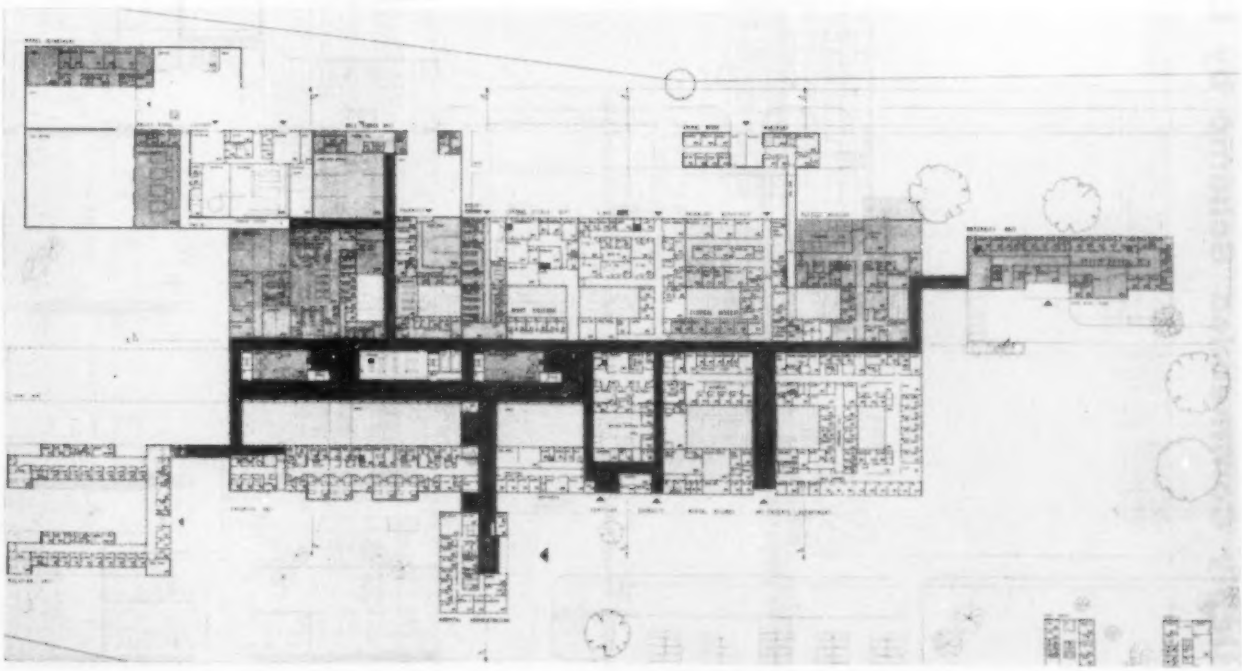
greatest difficulties in running general hospitals result from the rising costs of labour and staff shortages. This puts great emphasis upon the need for a building which can be simply and economically run, which implies highly compact planning and the greatest possible reliance upon mechanical aids and equipment.

A third vital point, which is now generally recognised, is that the building must provide a high degree of flexibility for future changes. How this can best be done is a matter for dispute. There is the view, for instance, expressed by John Weeks in the AJ special issue on hospitals (7.7.1960) that a certain amount of flexibility can be provided if certain types of planning are adopted. For instance, groups of clinical rooms or wards can be arranged so that they can be broken down into a wide variety of sizes. Another method, which is

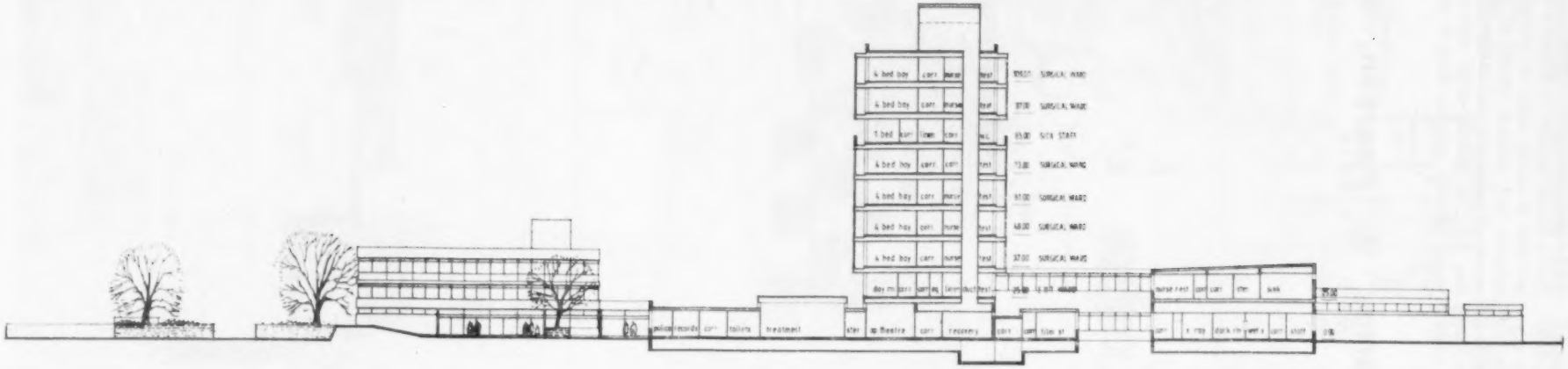
Highly Commended Scheme by Charles B. Pearson, Son & Partners



Block plan, above, and ground floor plan of hospital, below

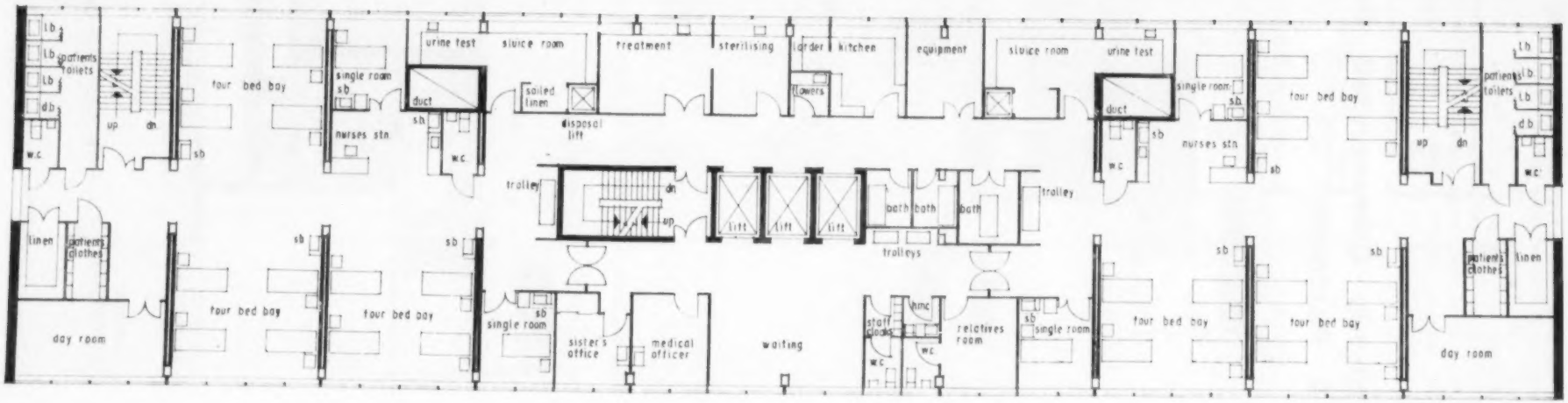


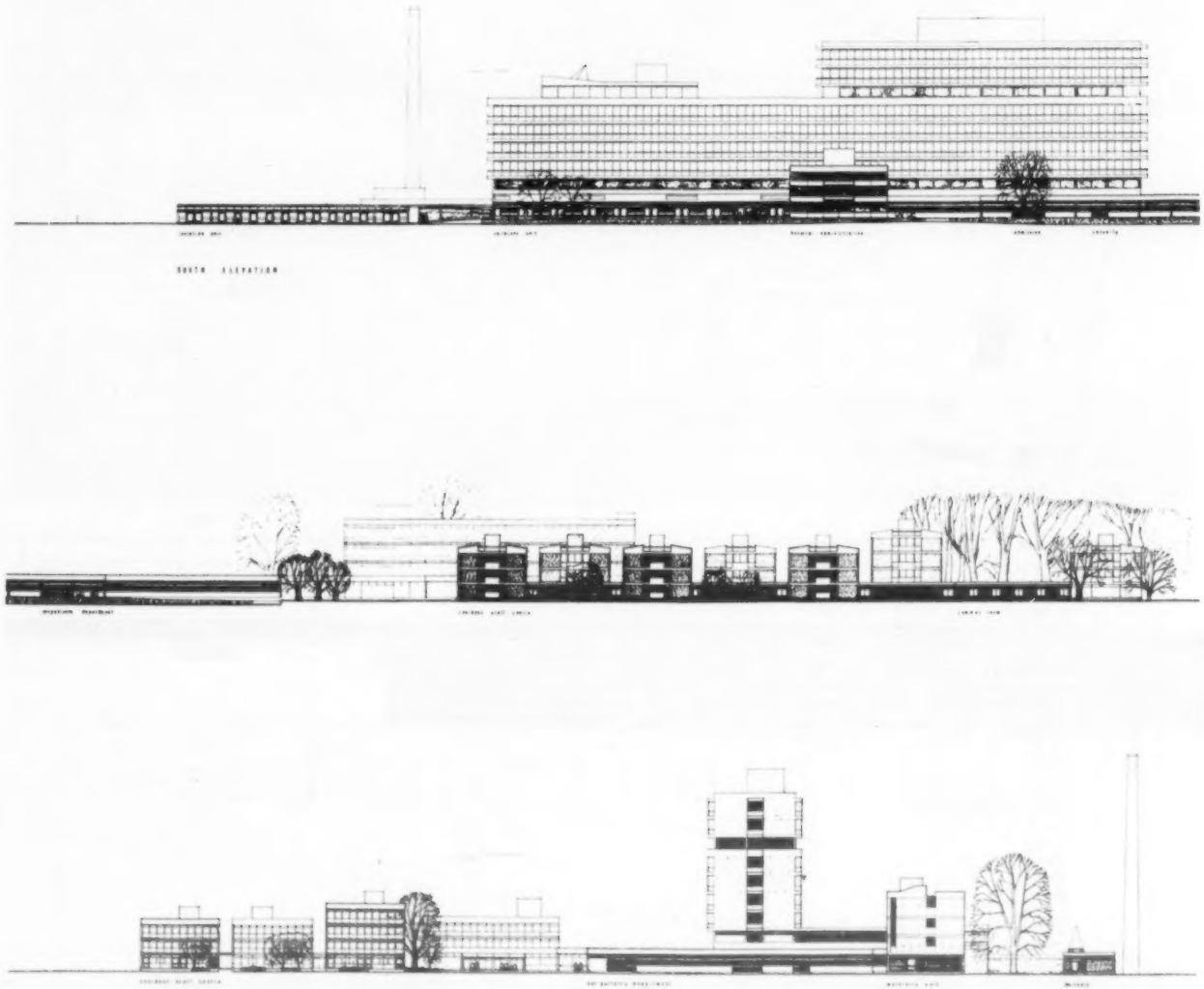
Highly Commended Scheme by Charles B. Pearson, Son & Partners



SECTION C-C

Section through ward block looking west, and below, typical ward plan



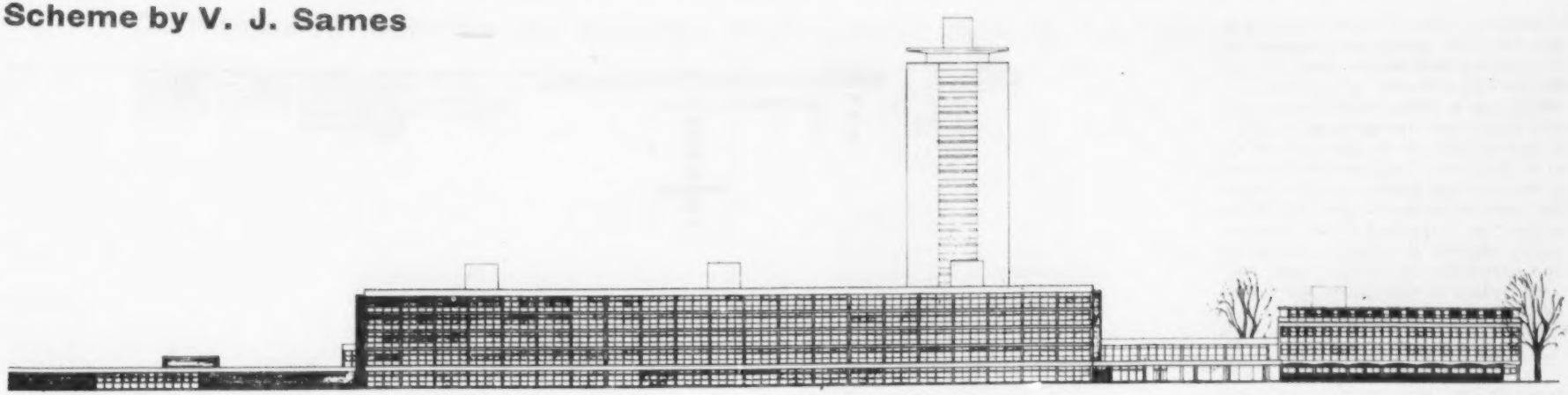


South elevation of part of hospital, including ward block, top. Centre, south elevation of remainder of hospital, and residential area, with maternity block beyond. Bottom, east elevation of scheme

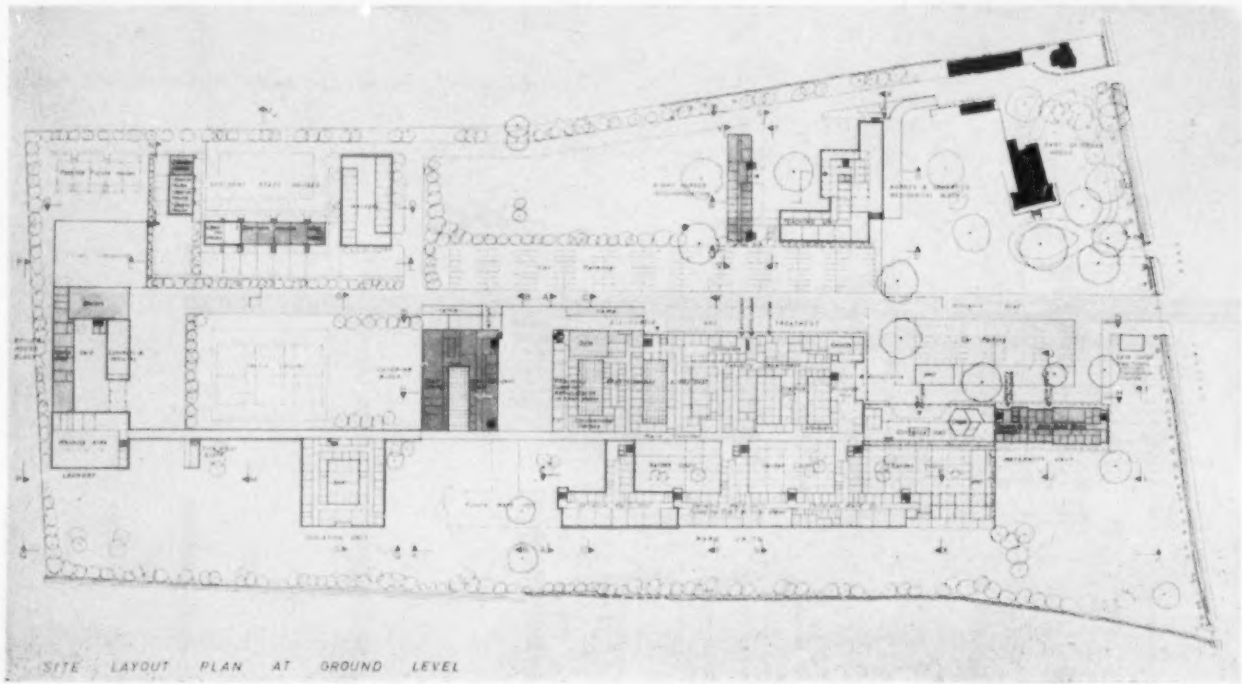
apparent in some of the latest hospital work by Skidmore, Owings and Merrill, is that the answer must lie in a building which is designed in an entirely parallel way to the production areas of a factory. There is no sign yet of this method being attempted in this country, but it would seem in the long run to hold out the best chances of success, provided the need for patient and public areas to be somewhat domestic in character is not forgotten. In the meantime, it is fairly clear that because of flexibility it has now become too risky to attempt multi-storey development for the major part of the hospital, except for those elements such as the wards which are likely to remain relatively static, and are repetitive units. These, therefore, are some of the factors which an assessor of such a competition must bear in mind. In particular, it is bound to be these broader principles which must be his main preoccupation. Minor errors of planning can obviously be put right at a later stage.

The organisers have obviously been to considerable trouble to attract those architects who might be expected to provide some positive new contribution to hospital planning: hence a two-stage competition, with the absolute minimum of drawings for the first stage, and a premium of six hundred pounds for each of the six entrants who carried on to the second stage. In view of this, the organisers have every right to be disappointed with the general standard of entries by the six finalists, which have little of a forward-looking nature in their design. You cannot at the same time help noticing that they seem to have been dominated by the Nuffield Trust Report, which has now quite frankly become as much a hindrance as

Scheme by V. J. Sames



Site layout, below, and south elevation, above, with residential tower beyond the main block. This scheme uses a repetitive five-storey T-shaped wards unit, separated from the rest of the hospital by a main spine corridor, which continues to a dispersal of catering block, isolation and laundry

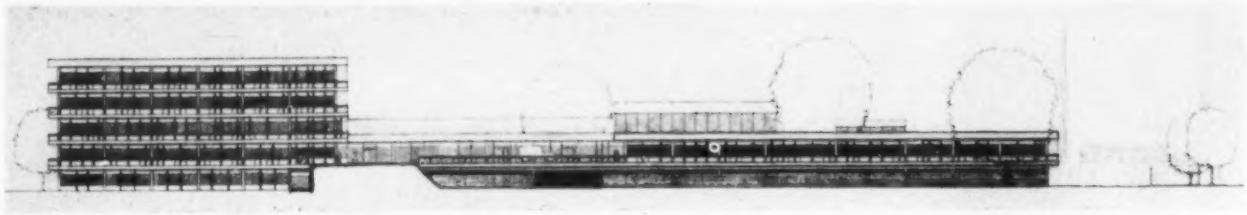


a help to the improvement of hospital design, very largely because it is now rapidly getting out of date.

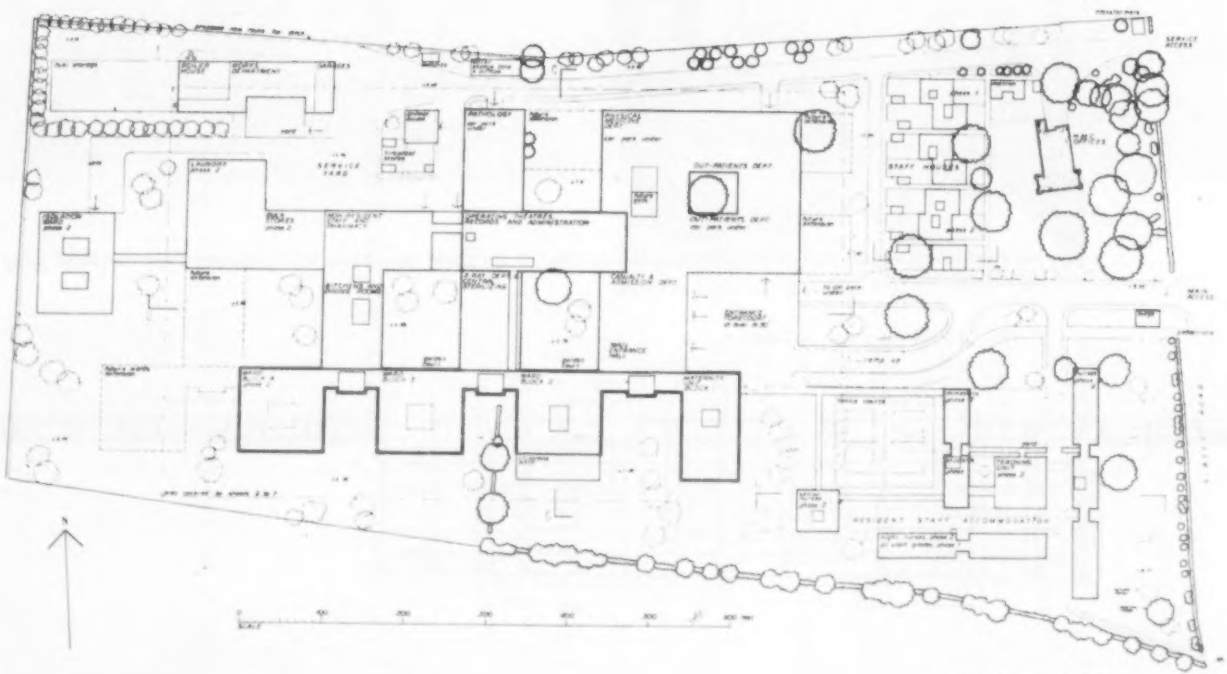
The winning design, by Design Partnership (previously Grenfell Baines & Hargreaves) has two great merits, that it is a compact workable plan, and that it has been designed with very much a domestic character. The main departments which require direct access for the public and ambulances have been grouped in a large L-shaped block around an entrance forecourt. Beyond these on the north side of the site are ancillaries such as stores, boiler house and kitchens set out along a service road parallel to the boundary. This leaves the quietest part of the site for the ward blocks, which have been built up into a complex pattern of courts by the repetition of a standard T-shaped ward block, which is two storeys high. The residential accommodation and the nurses' training wing are placed on the south side of the site near the road.

With such a layout, the horizontal circulation obviously becomes critical, and this has been created by the use of "street corridors." Some of these are rather long, so that they present the risk of becoming institutional, but the designers believe that

Scheme by John R. B. Green



Site layout, below, and east elevation, above. This design has a series of five storey tower blocks for the wards, and an underground car park below the out-patients department



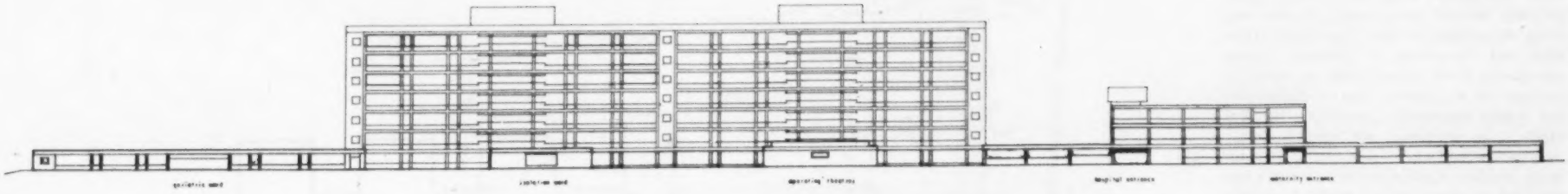
SITE LAYOUT PLAN

the visual contact with the internal courts will provide adequate relief. The only snag with the circulation system is that in the L-shaped ward block area, the layout may tend to encourage the use of the wards themselves as through traffic routes; this pattern does, however, allow for quite a wide variety of groupings for the wards should such flexibility be required.

The designers propose that wherever possible economies in construction costs will be made by use of load-bearing cross walls in those parts of the hospital, such as wards and the residential accommodation, where flexibility is not likely to be required. The rest of the building is planned with concrete columns on a 20 ft. 6 in. grid, carrying slab floors which have a soffit free of beams to allow freedom for horizontal services in the ceiling space. Careful attention has been given to the necessity of providing a building which will weather well, with low maintenance costs. The external walling will be mainly facing bricks, with exposed aggregate concrete where the structure is expressed. Windows will be aluminium set in hardwood sub-frames. The designers estimate that the net cost of the scheme will be about £2,600,000, at about 136s. a square foot, and that the total cost including a number of ancillaries, will be about £2,832,000.

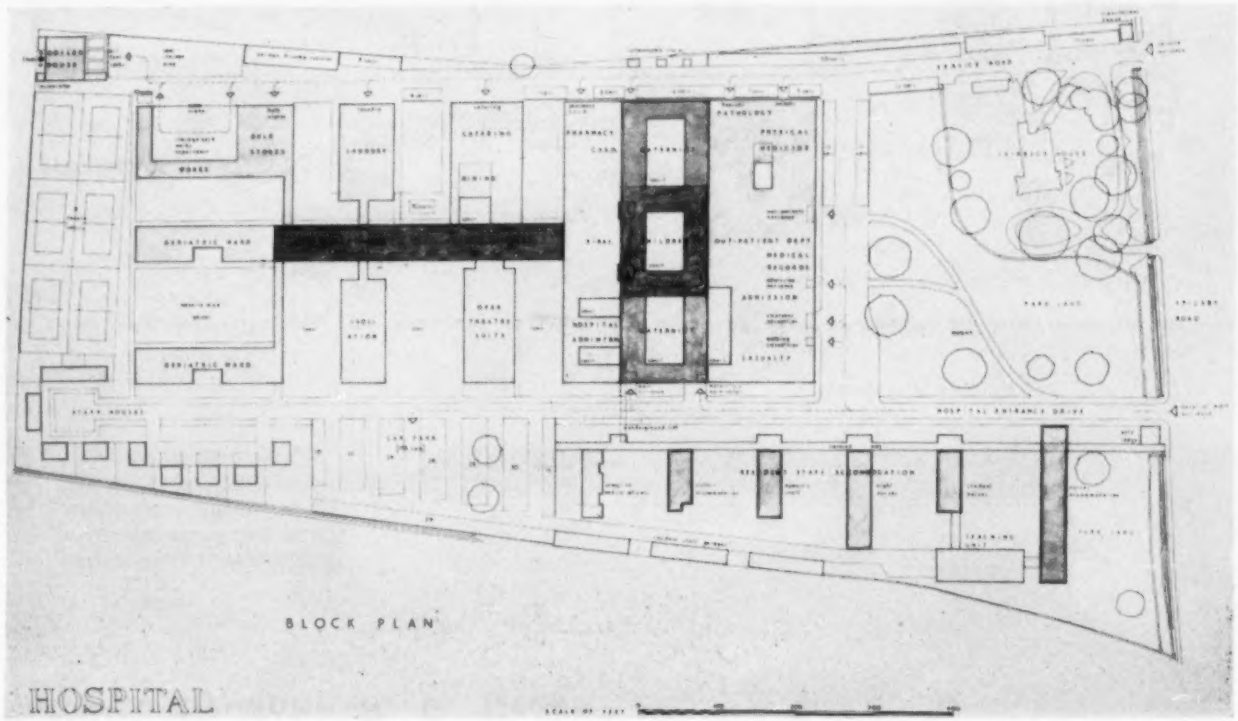
The highly commended design by Charles B. Pearson, Son & Partners is in many ways an extremely workable scheme, and is most beautifully presented. Some of the details of the planning repay careful study, such as the way in which the visitors are handled so that they may use a generous concourse and have access to the wards in the slab block by a route completely separate from the rest of the internal hospital circulation. There is also the provision of a quite separate "disposal" circulation system for such things as dirty laundry or the delivery of bodies to the mortuary (as at Powell and Moya's hospital at Swindon). The plan works extremely well architecturally from the point of view of the various types of public access, and there would also seem to be considerable merit in the idea of housing the residential medical staff above the administrative block at the main en-

Scheme by Charles H. Hyde



SOUTH ELEVATION

South elevation, above, and block plan, below. This design has a relatively symmetrical layout centred round a seven-storey ward block



trance, so that when on call by night they can quickly and easily reach the wards under cover. The scheme, however, because it has plumped for vertical development of the wards, starts to have a slight tinge of the institutional, although in many ways the design is quite clearly the most architecturally distinguished scheme submitted in the second stage. One must also doubt whether the estimated cost of about 110 shillings per square foot for the net area, and the total cost of just over two and a half million pounds, is adequate for the structure and finishes outlined in the designers' report.

The remaining four schemes are in varying degrees approaching that institutional character that the hospital's architect must now try to destroy, and have various faults in planning which can hardly be ignored. One or two of the schemes also seem to have gone wildly wrong in the way in which vehicle access is handled on the site. As a result of this competition, although there has been no great advance in hospital planning, it is encouraging to see that the assessor has been able to select a practical and down to earth scheme, which in layout and appearance reflects the friendlier and more integrated role that the hospital is beginning to take in the community.





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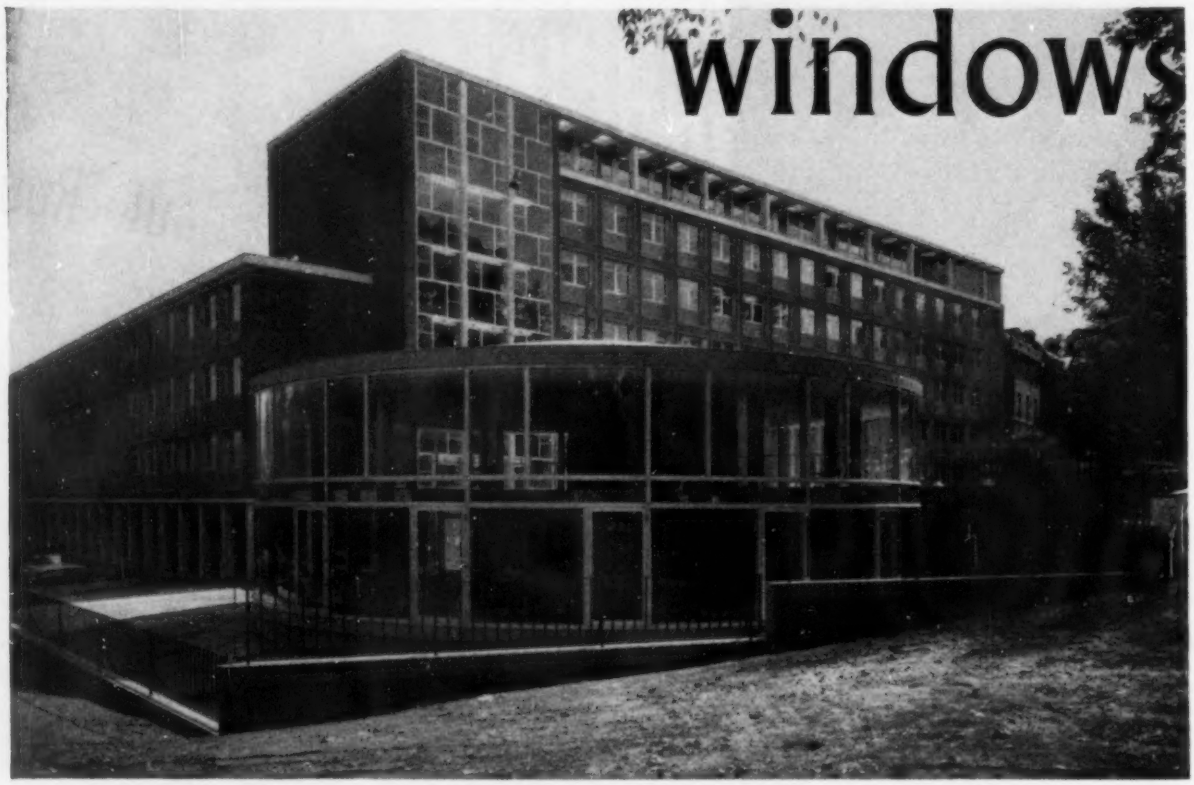
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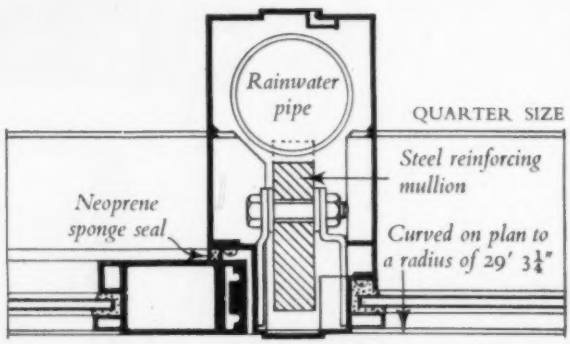
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technical section

THE INDUSTRY

This week Brian Grant describes window walling, sash windows, sink units and a carport.

Window Walling and Cladding

A new publication from Morris Singer deals with Holoform window walling and continues to stress the advantages of using materials possessing similar coefficients of expansion so as to improve weathertightness. Their choice falls on steel and bronze, which have the same coefficient and which are also very strongly resistant to atmospheric corrosion. Standardised walling units have been evolved which are made in sizes up to 12 ft. high and 5 ft. wide. The side members are made to interlock and form a box mullion, the vertical joint between the units incorporating a labyrinth gasket filled at the front with a sealer. The framework is faced with pressed stainless steel conforming to the mild steel profile, and at the top of each half mullion is welded a stainless sleeve over which the half mullion off the unit above is secured. Opening lights for single or double glazing are made from mild steel universal sections or from bronze extrusions. The booklet contains a number of interesting drawings showing the arrangement of a number of recently executed jobs, including the new Vickers offices in Millbank. (*The Morris Singer Co. Ltd., Forest Road, Walthamstow, London, E.*17.)

Sash Windows

An entirely new double hung sash window operated by concealed gears has recently been introduced by Hills Glazing in conjunction with Geared Sashes Ltd. The window is in extruded aluminium with thin jamb and sill sections and is designed to accommodate double glazing if required. Both sashes of the window are operated independently by a single handle in the centre of the sill, and no counterbalances are used. The necessary gearing is entirely concealed and will lift weights of up to 150 lb. per sash in overall window sizes up to 10 ft. by 5 ft. 3 in. The design also incorporates a new method of pressure glazing in neoprene channels not previously applied to double glazing units in this country. The illustration shows a geared sash window 8 ft. by 5 ft. 3 in. containing two 120-lb. sashes with Glaseal double units in ¼-in. plate glass with ½-in. air space. (*Geared Sashes Ltd., Chester Street, Birmingham* 6.)

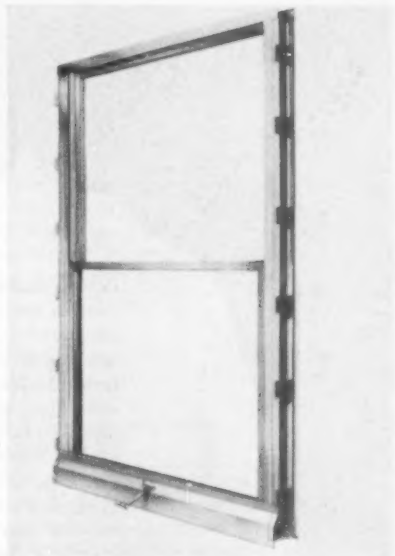
Sink Units

The illustration on the right shows a new Easiclene sink type 42/18T, which is based on a 54 in. sink top with offset tap holes. This version gives an exceptionally large bowl to which taps can be fitted without loss of space. The drainer and surround are mirror polished and the bowl is in satin finish. Price for the complete unit is £26 10s., or the sink top only is £14 10s. (*Easiclene Porcelain Enamel* (1938) *Ltd., Lord Street, Chapel Ash, Wolverhampton.*)

Covering Parked Cars

The illustration on the right shows the Unispan carport, which is made in standard 15 ft. wide bays and measures 25 ft. from near ground level at the back to the front edge of the awning. The cover sheeting is Unilux resin-bonded glass fibre without horizontal joints, and is available in a range of colours. Since the design is sectional any length of parking space can be provided, and spans can be erected back to back on a common concrete base if required. There are also other obvious uses, such as open air exhibition stands or hangar type buildings with sheeted ends. Fascias can be supplied as name boards or to carry concealed lighting, and the manufacturers will erect the structures anywhere in the country. (*The Tully Engineering Co., Ltd., Newbridge Works, Newark, Notts.*)







Top, the Easiclene sink unit

Centre, the new double hung sash windows operated by concealed gears

Bottom, the Unispan carport



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INFORMATION CENTRE

A digest of current information prepared by independent specialists ; printed so that readers may cut out items for filing and paste them up in classified order.

A
72

7.81 practice
TECHNIQUE OF ARCHITECTURE

Wendepunkt im Bauen by Konrad Wachsmann.

This, the first book of a projected series, introduces Wachsmann's thoughts on the industrialisation of building.

Involved, as we are, in an apparatus of inconceivable complexity, with a tremendous momentum of change, we shall be compelled to abandon traditional techniques and the thought processes appropriate to them. The situation demands not merely acceptance, but complete exploitation of the new techniques available to us.

There has, as yet, been only a romantically superficial realisation of the machine's potential. Complete mastery of its disciplines and an honest acceptance of its logic will engender a new aesthetic.

This suggests, as Gropius foresaw, the emergence of a new kind of artist-technician operating within a team.

Wachsmann deals authoritatively with the problems of training, drawing upon his extensive experience in various schools, and describes a number of team studies. He believes that if the members of the team are working together within the discipline imposed by technology, a harmony automatically takes place, since the question of conflicting caprice does not arise.

Technical Information must be readily available. Wachsmann proposes an information centre forming part of a research institute covering all fields of human activity. All information abstracted by research in any one department could then be easily co-ordinated with the information gained in other departments.

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747

9.69 design: general
INTERIOR DESIGN

Interior Design. By Harry and Lilian Stephenson. Published by Studio Books (Longacre Press Ltd.). Price 35s.

Students and designers in search of a guide to the use of materials and approach to interior design, will find this book interesting. The section that covers exercises carried out at the Kingston School of Art and the fairly extensive information on structural and decorative finishes, textural materials and fabrics is well presented. However, the second half of the book which aims to cover furniture accessories (including cushions, pictures, sculpture, and plants), heating, lighting and national influences is sketchy and should be approached with caution. It avoids presenting formula "clichés," but at the same time, after the authoritative first section, these later chapters could be misleading. It is disappointing to see no reference to the problem of renovation where the aspect of extracting existing architectural character is important. In fact, most of the illustrations are architects' interiors incorporated in new buildings. Nevertheless, the "case study" is well set out and the book has a freshness and orderly quality that are pleasing.

(93)
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10.209 design: building types
FACTORIES

Factory Building Studies 9. Department of Scientific and Industrial Research, Building Research Station. *Fire Protection in Factory Buildings*. By C. J. Langdon-Thomas, A.A.Dipl., A.R.I.B.A. HMSO 1960. Price 3s. 6d.

Until recently legislation and knowledge on this subject have grown piecemeal rather than systematically. This is reflected in the way legal requirements and recommendations are scattered among many Acts of Parliament, byelaws, Codes of Practice, British Standards and technical literature. Mr. Langdon-Thomas brings these independent developments together in a comprehensive guide and introduction to fire protection in factory buildings. He considers the principles involved and clearly shows the extent of the existing regulations and byelaws and draws attention to important aspects that are not covered.

The report deals with internal and external fire hazard. Materials and processes presenting "abnormal" fire risk are listed. The properties of materials and structures in relation to fire and high temperatures are considered including various methods of protecting structural steelwork. It deals with precautions to prevent fire starting or spreading, means of escape, planning for fire fighting, ventilation for processes liable to give rise to flammable dust or vapours and light relief panels required in the case of materials carrying an "explosion hazard." The present inadequacy of legislation concerning single-storey factories is particularly brought out, and suggestions are put forward to control the lateral flow of smoke and hot gas when divisions are not possible. In respect to the maximum cubic capacity for sections of multi-storey factories, it recommends adherence to the Fire Grading Report as opposed to the Model Byelaws. It draws attention to certain cost considerations of fire protection, for instance, the balance of protection of steel against maintenance, sprinkler installation against the resulting reduction in insurance premiums. There are eight appendices covering technical points of interest, and a list of essential and relevant publications.

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18.222 construction: theory
STEELWORK DESIGN

Steel Designers Manual. Crosby Lockwood & Son Ltd. 50s.

This designer's handbook was reviewed in the JOURNAL in 1955 when it was suggested that it was a valuable addition to libraries at a price of only 50s. There have been in all five impressions and now with the revision of B.S.449 a second edition has been published, still at 50s.

The first half of the manual is devoted as previously to beam theory, frame analysis, etc., and consequently there are only two or three pages of revision in the first 500 pages. Thereafter there is major revision to deal with the new approach laid down in B.S.449.

B.S.4.B deals with standard section properties and has also been added since the early edition. The relevant properties of the new and old sections are given and the plastic modulus of beams and channels is included. Castella sections have also extended their range.

A new standard for cold rolled sections B.S.2994 has been issued and extracts have been included. Ranges of steel piles have been extended over the last five years and these are also dealt with.

The book foreword claims that it is the only comprehensive work to present in one volume all data, formulæ, tables, diagrams and explanatory text for the design of steel framed buildings. This claim is in no way immodest.

(43)8
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19.229 construction: details
FLOOR TILES

P.V.C. (Vinyl) Asbestos Floor Tiles, British Standard 3260:1960. Published by the British Standards Institution. Price 4s. 6d.

This British Standard prepared under the authority of the Plastics Industry Standards Committee specifies the requirements for smooth surfaced homogeneous p.v.c. (vinyl) asbestos floor tiles. It covers the quality of the materials, colour and finish, colour fastness to daylight, dimensions, qualities of resistance. The appendices give methods of testing dimensional stability, volatile content, curling, indentation, deflection, impact and resistance. The indentation at 25 deg. C. (·015 in.) and the standard size of 9 in. × 9 in. is less than the equivalent flexible flooring tile.

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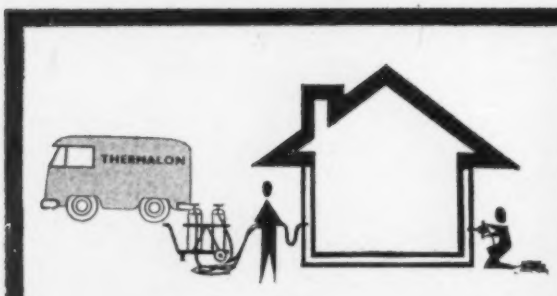
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technical section

SfB No. (94)

UDC No. 725-56

10 DESIGN : BUILDING TYPES

Some aspects of housing for old persons, 1

This week Vere Hole, a social anthropologist working at BRS, reports on an enquiry into the way in which the occupants of 61 old people's dwellings in Edinburgh used their homes and what they thought about them. Among the conclusions reached by this enquiry are the need to consider the requirements of old people, not only in terms of physical disability, but also in terms of their way of life; also the need for housing management to think how to integrate old people into the community and to explain to them the workings and purpose of any unusual equipment or plan arrangements which have been designed to make their lives easier or more safe. This article, which is published by permission of the Director of Building Research, will be concluded next week.

INTRODUCTION

Now that the acute post-war demand for family housing has been in part met, more attention is being directed to the housing needs of other groups, and particularly of old people. A survey which was recently carried out in Scotland, although too small in scale to allow wide generalisation, has raised some points of interest in this field.

In 1957 the Department of Health for Scotland completed a demonstration housing scheme which provided accommodation for families and for old people on the same site. The Department had made an analysis of the various stages in building, of the costs, and of the response of local authorities who visited the scheme. To carry the study further, the Building Research Station was asked to undertake a survey of tenants' opinions of the accommodation and amenities provided. This article is concerned only with the two types of accommodation for old people on the demonstration scheme, together with two other groups of old people's dwellings built for the Edinburgh Corporation, which were studied at the same time for purposes of comparison. Both of these dwelling types had been occupied for about the same period as the demonstration dwellings, and were of traditional design.

The dwellings included in the survey consisted of one group of flats for single persons (Type A) and another group of flats for two persons (Type B) both of which were designed on the plan of an open bed-sitting room, together with two groups of two person bungalows, one of which provided an open bed-sitting room and sun porch (Type C) and the other had a separate living room and bedroom (Type D)[1]. The open bed-sitting room and the plan with separate living room and bedroom have both, in the past, been recommended[2] by the Ministry of Housing and the Department of Health for Scotland as suitable for old persons when they are housed in separate dwellings. In space standards the four dwelling types in the study conform, both overall and in the sizes of individual rooms, to the areas currently recommended[3] by the Department of Health for Scotland for one and two person dwellings of these plan types. All four dwelling types were heated by means of an improved open fire with back boiler in the living room; all of them had individual bathrooms, though with equipment which varied from one dwelling type to another. All had separate kitchens, two of which (Types A and D) were designed as working kitchens, and the remainder as dining kitchens.

In all, 61 dwellings were included in the survey; five of Type A, 26 of Type B, seven of Type C and 23 of Type D. All of the tenants were old persons, with an age range of 60-85 years; they had moved to the houses included in the study about a year before the survey was carried out, and it is possible that, as a result of the process of selection for rehousing, the sample included fewer persons at the upper end of the age scale, or with severe disabilities, than might be found on an old estate. Three-quarters of the sample

[1] These Type D bungalows received honourable mention in the Saltire Society awards for 1957. *The Architect and Building News*, vol. 215, No. 3, 1959, p. 70.

[2] Dept. of Health for Scotland, *The Housing of Special Groups*, a report by the Scottish Housing Advisory Committee (Edinburgh: H.M.S.O., 1952). Min. of Local Government and Planning, *Housing for Special Purposes* (London, H.M.S.O., 1951).

[3] Dept. of Health for Scotland, "House Design." *Scottish Housing Handbook*, Part 3, Revised ed. (Edinburgh: H.M.S.O., 1956), p. 24.

technical section

tenants were rehoused from other local authority dwellings which were now accounted too large for them, a few came from old tenement property, and the remainder from furnished rooms. In the new houses where the study took place, two-thirds of the households consisted of one person and the remainder of two, so that a number of dwellings designed for two persons were technically under occupied. The information was collected by means of an interview with each tenant.

USE OF LIVING SPACE

In examining the use made of available space for various activities, it is not surprising to find that more meals were taken in the dining kitchens than where the dwelling was provided with a small working kitchen only. It is of interest, however, that there was little difference between the one and two person households in this respect, and that a higher proportion of meals were eaten in the living room than is usual in local authority houses occupied by families.[4] The decided preference for eating in the living room when entertaining was, however, the same amongst the old people as was found in younger households.

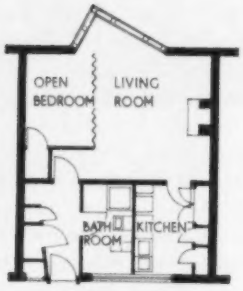


Fig. 1. Plan of flatlet, type A, illustrated in Fig. 3

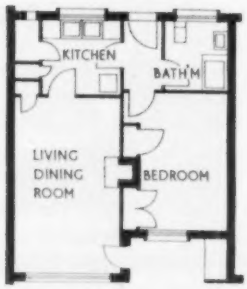


Fig. 2. Plan of bungalows, type D, illustrated in Fig. 4

For sitting and resting, the living room was almost invariably used. Even when confessing that a daily rest on their bed had been suggested by the doctor, the old people appeared to prefer a nap in an easy chair. In summer, some of them sat at their front door in the afternoon, but they did not make much use of the large splayed window in the Type A flats, and the sun porch in the Type C bungalows, both of which were designed as a sheltered and sunny place to sit.

Somewhat over a third of all tenants had had overnight guests since occupying their dwellings. The most usual provision for such guests was a bed settee or bed chair, either in the living room of the two roomed bungalow, or near the fireplace in the bed-sitting rooms. A few tenants shared their bed (usually a double one) with a visitor, although this was sometimes thought to be inconvenient. Tenants were, however, more prepared to accept these somewhat makeshift arrangements than might have been expected. A flatlet, consisting of bed-sitting room, w.c. and lavatory was provided on the demonstration scheme to be hired by any of the old persons who wished to accommodate guests. The housing authorities subsequently decided to restrict the use of this guest room to cases where, through illness, an old person required a nurse or relative close by. Since the old people felt, in such an emergency, that they needed someone in their own dwelling, the guest room had never been used up until the time of the survey.

All three dwelling types based on the bed-sitting room plan were fitted with curtain rails recessed into the ceiling to enable the portion of the room used for sleeping to be divided from the remainder. Somewhat varying use was made of the curtains by the group, comprising two-thirds of the occupants of these bed-sitting rooms, who had installed them. Quite a large proportion (45 per cent) of tenants in the bed-sitting rooms did not like the idea of curtains used as a means of dividing the room, saying that they were unhygienic, stuffy, made the room cramped, and were expensive to install. Others favoured the curtains because they afforded protection against draughts, provided greater privacy, and were ornamental.

A large majority of tenants in all dwelling types found that the size of their bed-sitting room, or of the separate living room and bedroom, was quite satisfactory[5]. Of the two plan types, the one with two distinct rooms was the more popular; 80 per cent of those in bed-sitting rooms said that they would prefer two separate rooms, although they were not actively dissatisfied with existing arrangements. Not only couples but also single persons felt that two rooms gave greater privacy, particularly at times of illness, or if guests stayed overnight, and the greater separation of eating and sleeping was preferred. Although a bed-sitting room type of dwelling has been part of a very old tradition in Scottish housing, this tradition appears to have less influence nowadays: even the older generation appear to prefer separate arrangements.

---

[4] V. Hole and J. Madge, "A case study of tenant experiences in some new Scottish houses," THE ARCHITECTS' JOURNAL, 1958, 127, p. 541.
P. G. Allen, "Meals and the kitchen," *Housing Centre Review*, 1955 (5), p. 14. *Meals in Modern Homes* (London: Council of Scientific Management in the Home, 1953), p. 23.

[5] The sizes of bed-sitting rooms ranged from 201 sq. ft. (single person) to 248 sq. ft. (two persons); the separate living room was 157 sq. ft. and the bedroom was 113 sq. ft.

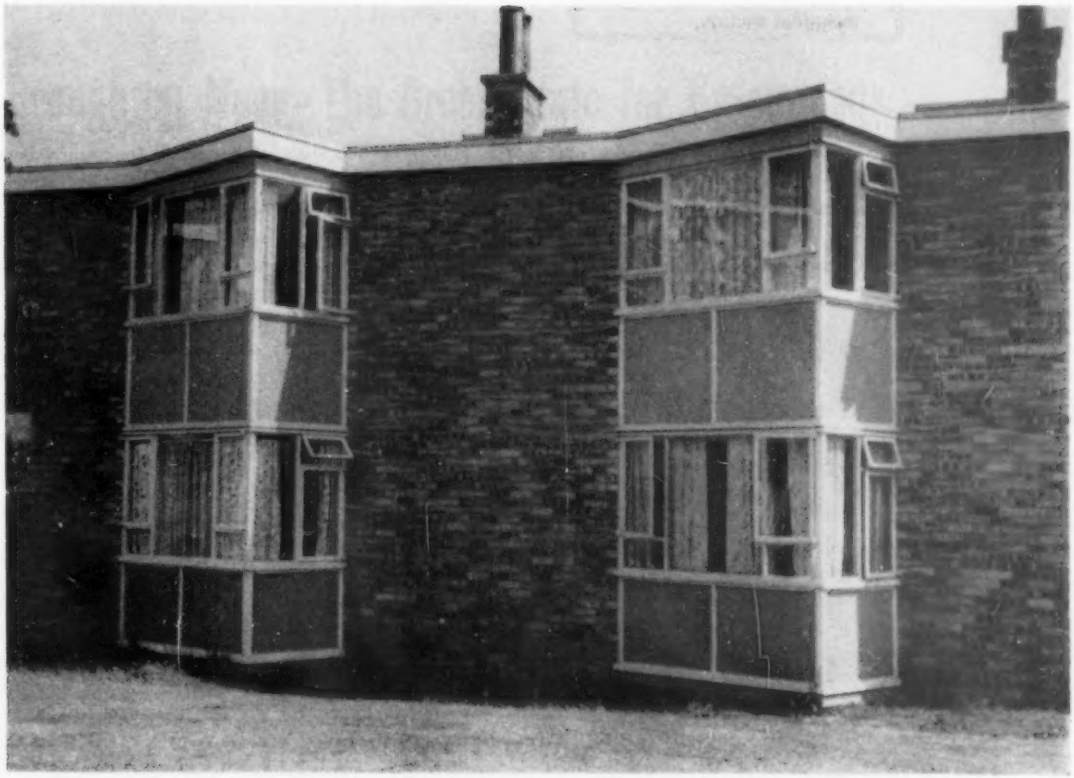


Fig. 3. Flatlets for single persons. The splayed window of the bed-sitting room was generally thought to be too large by the tenants

Fig. 4. Bungalow with porch. The bedroom windows opening on to the porch were thought to make this room dark. The grass around the dwellings was maintained by the Corporation, and private gardens were not allowed



technical section

THE BATHROOM

It is widely recognised that for old people, and particularly those living alone, the taking of a bath is associated with dangers such as slipping and fainting while in the bath. To combat difficulties such as these, the Department of Health for Scotland recommend[6] "sitz" type baths, which were installed in dwelling Type D, or "telephone" showers, with an anti-scald valve, which were fitted in dwelling Type A for single persons. The other two dwelling types had normal baths. As a safety precaution, a handgrip was attached to the wall in one of the dwelling types with a normal sized bath, and also in the type with the sitz bath; in the demonstration bungalows, which had slightly shorter and narrower baths than normally recommended,[7] a movable seat was provided which fitted across the bath.

This group of old people did not appear to be particularly apprehensive about accidents when bathing, although a fifth of them preferred to have someone else in the house to help them when they took a bath. As the bathrooms on the demonstration scheme have been fitted with safety catches, which indicated when the bathroom was in use but enabled the door to be opened from the outside if necessary, the merits of safety catches as opposed to locks were discussed with all the tenants. About a fifth of the tenants, including some of those provided with safety catches, said that they would definitely prefer a lock. In this group, some

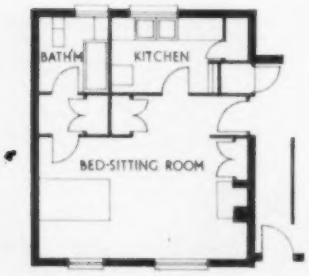


Fig. 5. Flatlet with bed-sitting room, type B

concern was felt for the arrival of a caller or tradesman while the bathroom was in use, in which case a lock on the bathroom door was felt to be necessary.

The other safety devices in the bathroom met with varying degrees of success. The handgrips to assist in getting in and out of the bath were used for this purpose by over two-thirds of the group which had them, but in other cases were disregarded or used as towel rails or for other purposes. The special seat provided with the baths in the demonstration bungalows was used when bathing by two of the fourteen persons occupying these dwellings, although others used it when washing feet, or to hold their soap. It was generally regarded by the tenants as unnecessary, possibly because its intended function was not always fully understood.

The sitz baths, of a type mounted on legs, were 2 ft. 6½ in. in height from the floor to the edge of the bath. Partly because of this excessive[8] height, 60 per cent of these tenants said that they definitely did not like this type of bath; although the local authority had subsequently provided stools to assist in getting in and out of the sitz baths, these were not always used. Another objection raised about the sitz bath was that it did not permit such complete immersion in hot water, a process which some old people regarded as beneficial.

The showers in the demonstration flats, which were located in a recess with raised plinth for drainage, and provided with a slatted wooden tip-up seat for use when showering, were also unpopular. Most tenants went for baths to their daughters' houses and only one out of five tenants in the group used the shower regularly. It appears that the other tenants had only tried the shower once or twice, and were deterred from further use by excessive splashing of the bathroom (although they hung plastic curtains on the rail provided around the recess). However, unfamiliarity with showers as a means of personal ablution was the main difficulty, and a lack of any appreciation of the benefits they were intended to confer. Other tenants in the sample who were not provided with showers were also questioned about their attitude towards them: only 20 per cent were favourable, in contrast to 40 per cent of old persons with whom the question was discussed in the course of a survey[9] carried out in 1950 in Hamilton.

Tenants who were provided with the normal type of 5 ft. bath were the most satisfied of all with regard to bathing facilities.

Another special feature of the demonstration dwellings (Types A and C) was a w.c. two inches lower[10] than the normal height which is highly recommended for old persons on medical grounds. The w.c.'s in the other two dwelling types were of normal height. When asked, only 4 per cent of those with w.c.'s of normal height said they did not find them comfortable, but two-fifths of those with lower w.c.'s found them rather low. In the demonstration dwellings handgrips, attached to the framework of the washbasin, were provided to assist persons using the w.c. Half of these tenants made use of the handgrips, those who did not use them saying they felt no need for such help.

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[6] *The Housing of Special Groups*, pp. 21 ff.

[7] Baths measure 55 in. by 22 in. from the inside edges compared with 66 in. by 28 in. overall length and width recommended by the Department.

[8] "The byelaws recommend that a sitz bath be installed "so that the top of the roll of the bath is not more than 1 ft. 9 in. above the floor or a raised step adjacent to the bath." Before a stool was provided, the height of the baths exceeded that recommended in the byelaws by almost 10 in. See Dept. of Health for Scotland, *Model Building Byelaws for Burghs* (Edinburgh: H.M.S.O., 1954), p. 50.

[9] "Survey of older people's housing needs," Appendix B, *The Housing of Special Groups*, pp. 64ff. This inquiry was carried out in 1950 by Social Survey amongst persons in Hamilton over 60 years of age.

[10] The seats of these special w.c.s were 13¼ in. from the floor. Those of the other w.c.s were about 17 in. high.

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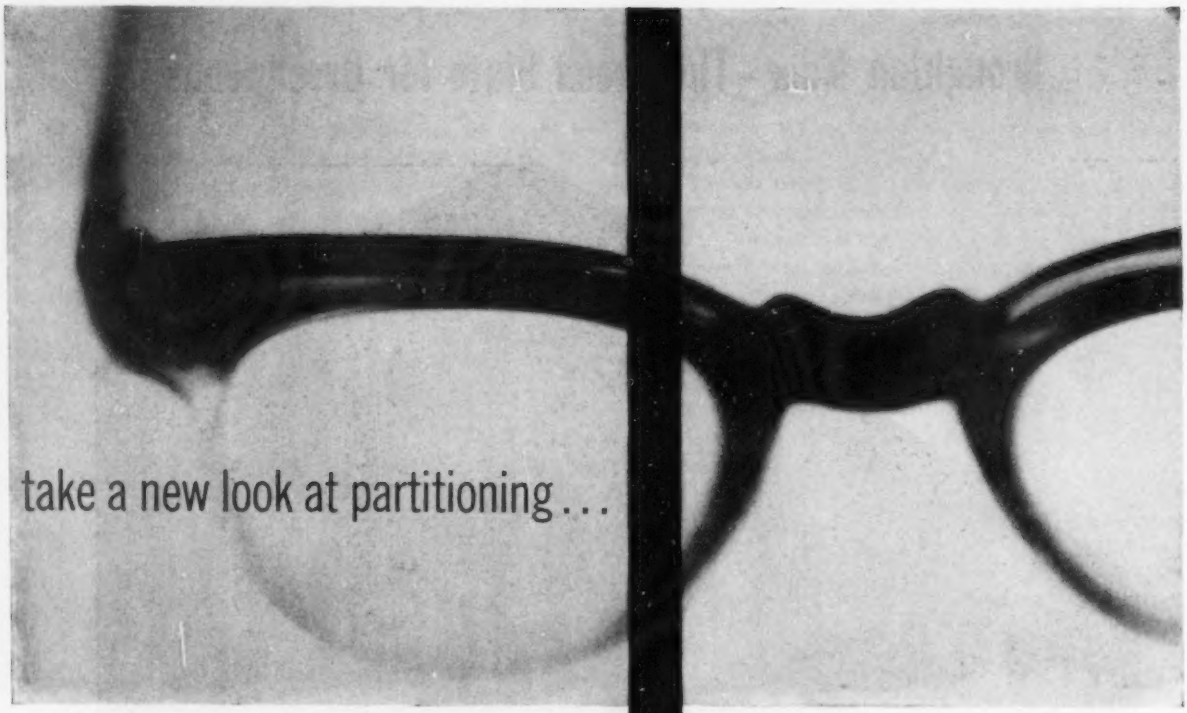
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Broughton Moor

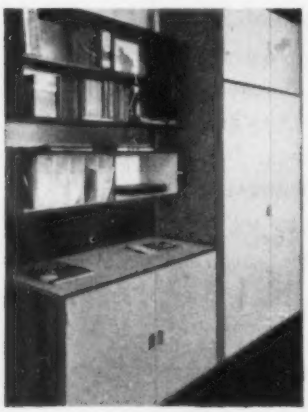
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SfB No. B
UDC No. 651:69

Contract administration

design drawings 13

Drawings should be prepared in basic form to illustrate sufficiently the principles of the design, including external works, landscaping, etc., to enable intelligent discussion with:—

1. Client
2. Quantity Surveyor
3. Consultants
4. Sub-Contractors

and developed for formal submission for all approvals when agreed by client. Clients either want to go into every detail, or get it all over quickly on the assumption that you will deal with everything on their behalf. It is essential that the scheme you present is one about which you feel fully confident from a design and technical point of view. It must always fulfil these conditions and if not you should delay presentation and inform the client accordingly.

Drawings should be to scale with general dimensions only. They should be a clean statement, easily read by a layman unfamiliar with drawings, but taken to a point where the architect is prepared to discuss it fully with a committee determined to find the snag, (any planning or structural inconsistencies should be eliminated). They should be prepared around the information referred to in " Collection of Data " (22).

Before presentation: (*a*) discuss proposals with consultants and specialists to check any points on which you have any doubt,

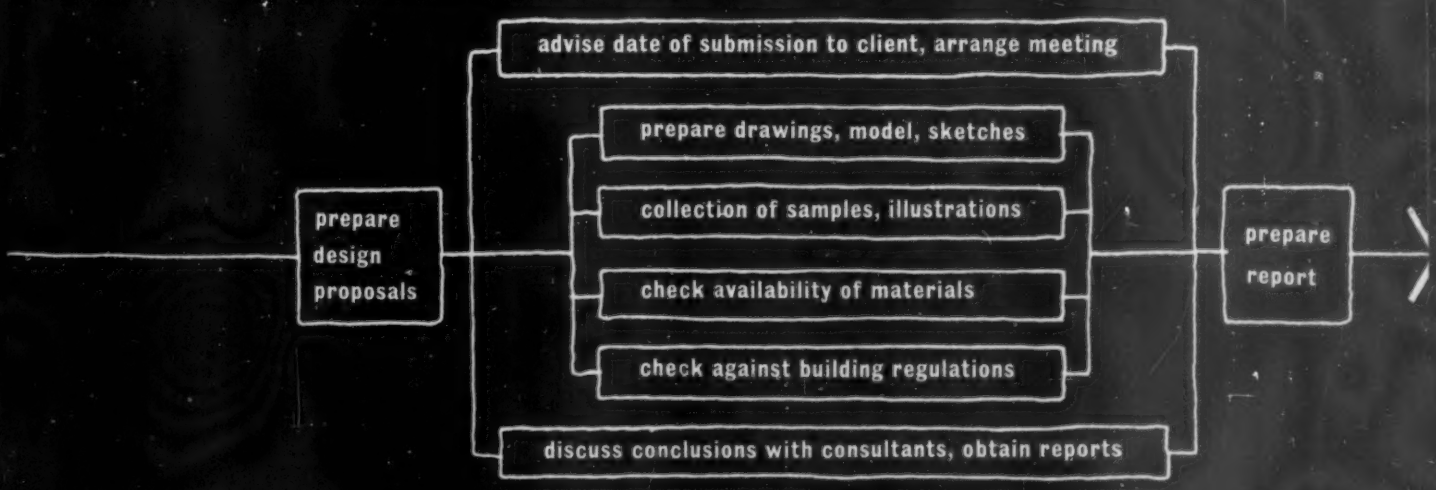
(*b*) if necessary check proposals again with local authorities.

(*c*) prepare illustrative drawings and/or a supporting model.

(*d*) prepare a collection of material samples or illustrations to establish the principles and check beforehand that these will be available for use when required.

(*e*) prepare a concise report which will be read with reports from consultants and quantity surveyor.

This collection should represent firm design proposals based on an analysis of alternatives. Alternatives which have been discarded during investigation should be referred to only to justify the scheme put forward. It is important to arrange a meeting with your client at which these proposals can be presented and discussed fully and the recommendations amplified as necessary by you.



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Contract administration

design report 14

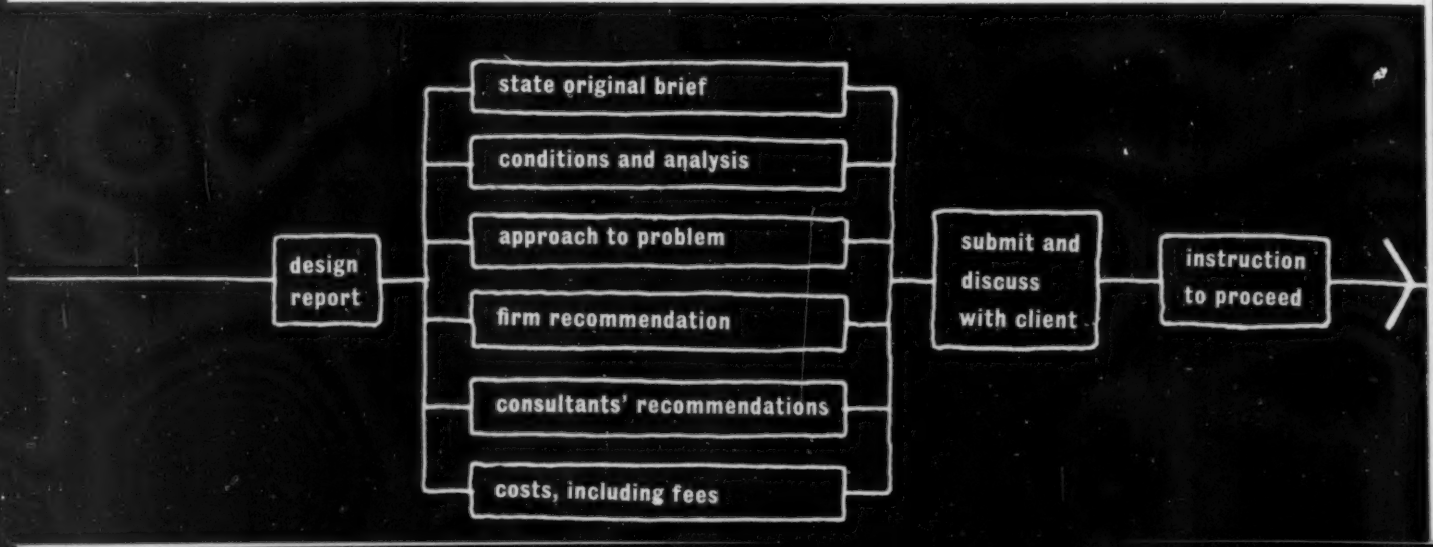
Design proposals, when submitted, must be supported by a report and assessment of costs for the work. There should be enough copies for each member where the proposals are being considered by a committee.

The report should state clearly and concisely:—

1. The client's original brief.
2. Your site analysis related to the brief.
3. Your approach to the problem.
4. Your recommendations and why.
5. An approximate assessment of cost, including all professional fees and expenses (anticipating expenses in settlement of adjoining owners' rights, etc., where applicable).
6. A request for the adoption of the recommendations and for instructions to proceed in detail.

The information from the quantity surveyor, engineer or other consultants will be complementary documents to this report and all should be carefully cross-referenced to the design drawings.

For contracts on which a quantity surveyor or consultants are not employed, the assessment of costs, as well as being calculated on a superficial area or cube basis, should be cross-checked by the same methods as contracts which are directly comparable, recently finished and on which completed contract costs are known (preferably on a building in the same locality).



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Contract administration

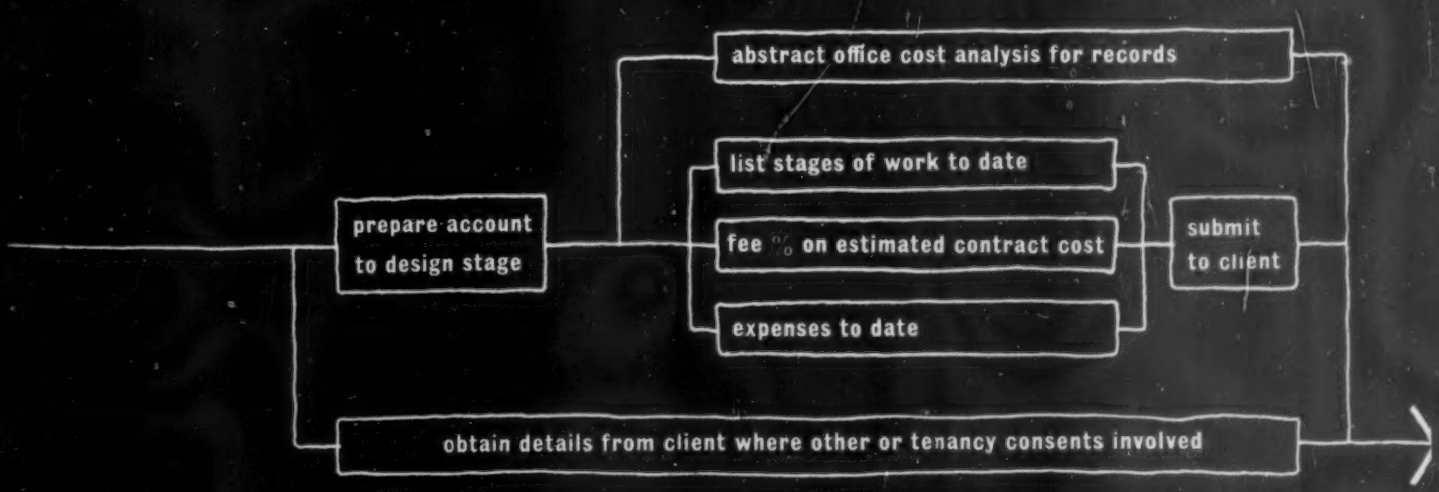
design fees 15

The interim account for work up to design stage becomes due when formal instruction to proceed with preparation of contract drawings is given by the client. Whether an account is rendered at this stage will depend on the size of contract and the expense incurred to date within the office.

The account will be submitted in accordance with the appropriate RIBA scale of fees agreed with the client. It should list the stages through which the work has passed up to the point at which instruction was given to proceed to contract stage. The appropriate percentage fee will be provisionally based on the assessment of building cost as submitted in the report, but it should be noted that the final fee will be adjusted on the basis of the final contract figure on completion of the works.

Incidental expenses should be claimed on the account for costs involved beyond those which are regarded as included in the fee and the date on which these have been incurred should be noted on the account.

For office records a cost analysis of principals' and assistants' time, including overheads, should be attached to the file copy of this account which serves as reference for *quantum meruit* assessment where estimates of likely fees are requested by a client in advance of commissioning the services of an architect—or alternatively to give an analysis of work throughout the office in terms of staff costs or different types of work where adjustments are needed in contract programmes and salary scales generally.



SfB No. B
UDC No. 651:69

Contract administration

other consents 16

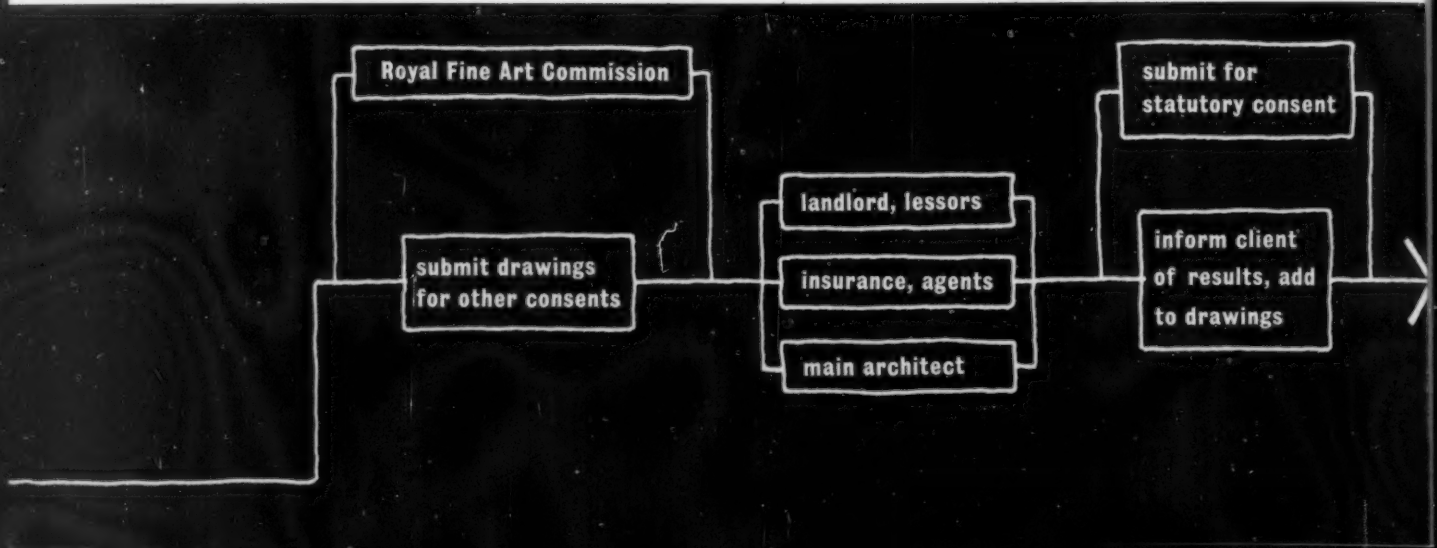
Where a building is to be occupied under lease and once the client has approved preliminary designs, submit drawings to all interested parties for approval. These should be design drawings together with specification of materials, or alternatively drawings developed and incorporating specification notes equivalent to those submitted for local authority consents.

The list to whom these should be sent may include

(*a*) Landlord or lessor
(*b*) Insurance company
(*c*) Adjoining owners
(*d*) Main architect: where client has instructed architect to act for tenancy while main buildings still under construction.

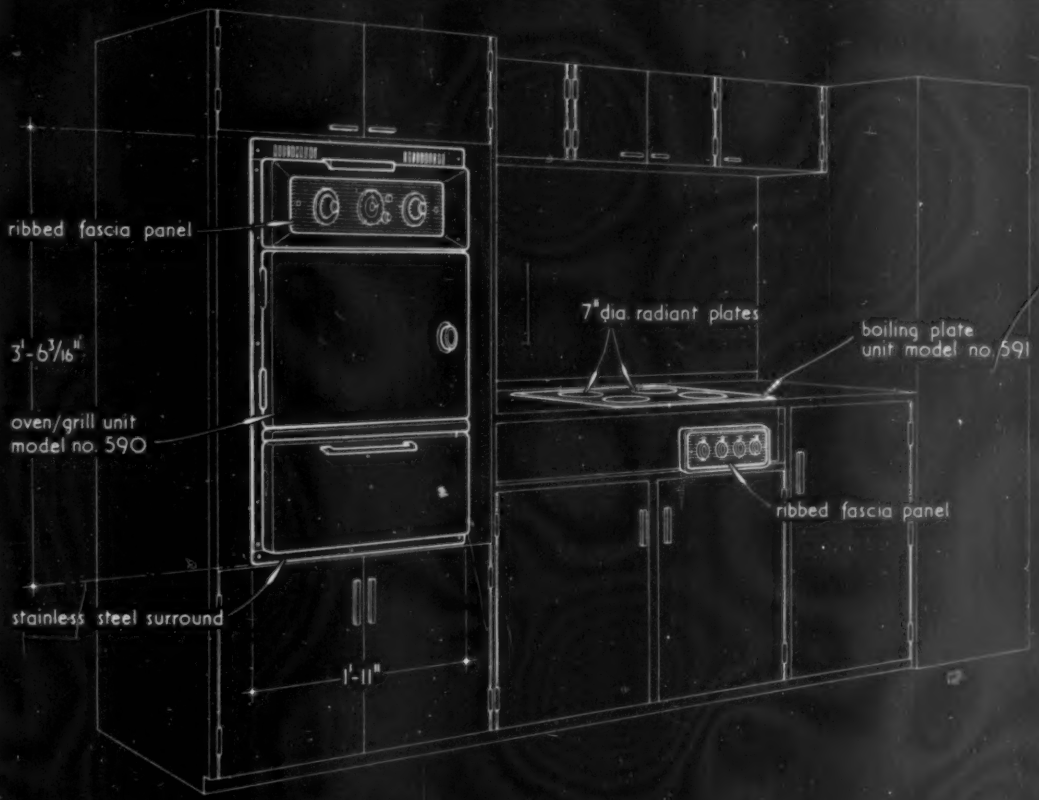
Where Estates own properties, a minimum specification is usually insisted upon for works to be carried out within their properties and a copy of this should be obtained before drawings are too far advanced.

Drawings showing proposals should be submitted to the client for him to circulate amongst those concerned or alternatively you can obtain a list from him so that copies of the drawings can be sent to each direct. Find out how many copies of the drawing each will require before submitting applications for approval as subsequent requests for additional copies prolong negotiations. Owner's approvals, comments or requests for modification must be reported to the client in order that the leasehold terms can be set out, checked, or revised by the respective solicitors.

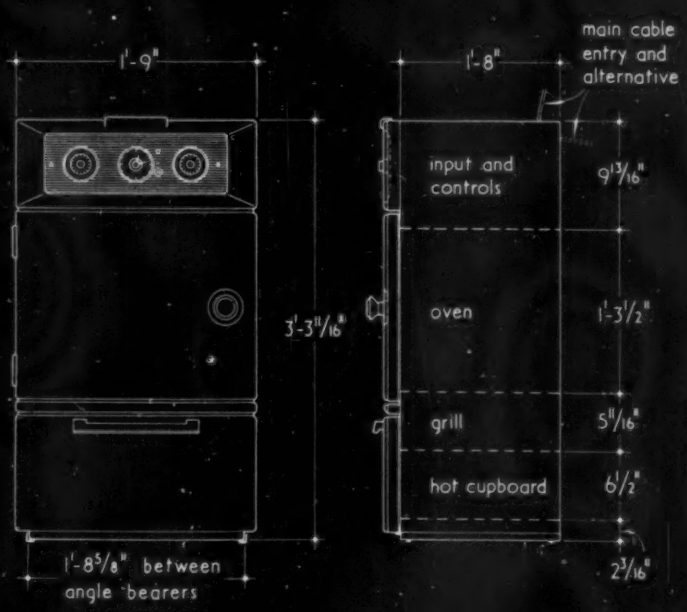


COOKING | ELECTRIC

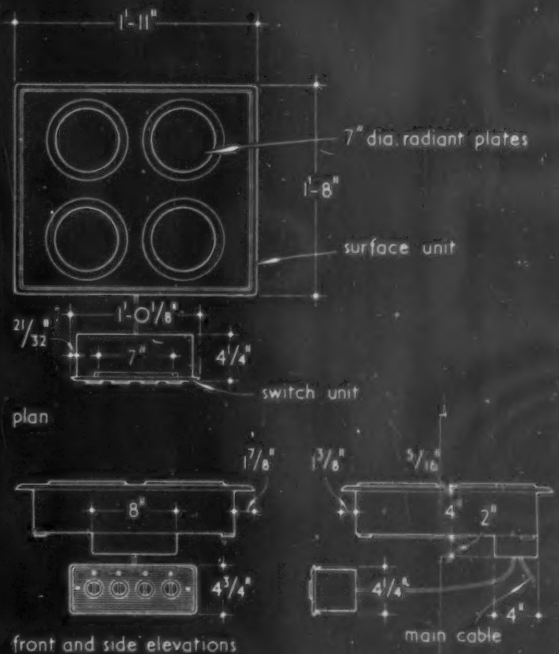
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PERSPECTIVE SKETCH OF TYPICAL ARRANGEMENT.



front and side elevations
OVEN/GRILL UNIT.



front and side elevations
BOILING PLATE UNIT MODEL No. 591.

·TRICITY· BUILT-IN ELECTRIC COOKER.

Manufacturer: Tricity Cookers Ltd

31.D1 ·TRICITY· BUILT-IN ELECTRIC COOKER

This Sheet describes the Tricity built-in electric cooker consisting of separate oven and boiling plate units for building into any cabinet arrangement. The drawings on the upper face show a typical arrangement and the lower drawings give details of the two units.

Material and Construction

The units are housed in 20 s.w.g. sheet steel casings. The front panels of the oven unit and the boiling plate hob are finished in acid-resisting vitreous enamel. A stainless steel surround is supplied for the oven unit to mask the joints with the surrounding fitments. A length of plastic extrusion is also supplied to provide a resilient seating for the hob of the boiling plate unit and to exclude moisture.

Oven/Grill Unit

Oven: The inside dimensions of the oven are: height, 1 ft. 3½ in.; width, 1 ft. 3 in.; depth, 1 ft. 3½ in. The oven door is hinged on the left (or right to special order) and has an automatic interior light and an inner glass door. The oven is fitted with a Smith's automatic time switch incorporating a one hour " minute " timer. A vitreous-enamelled meat tin and two bright nickel-plated shelves are provided. There are six shelf positions. The capacity of the oven is 3,600 cubic inches.

Grill: This is fitted below the oven and is controlled by a simmer control. A vitreous-enamelled grill pan with high and low runners is provided and the reversible grid can give four positions for grilling.

Hot cupboard: The internal dimensions of the hot cupboard are: width, 1 ft. 6½ in.; depth, 1 ft. 3½ in.; height, 6½ in.

Boiling Plate Unit

The boiling plate unit is made to drop into the working top of a suitable cabinet and is connected by a flexible metallic tube to the switch unit which is designed to fit into the front of the cabinet. There are four 7-in. radiant plates with simmer control.

Power Supply

The ratings of the units are as follows:

Oven: 2·4 kW.

Grill: 2·2 kW.

Boiling plates: 8 kW. (2 kW. per plate).

The voltage range is 200/210, 220, 230/240 and 250, a.c. supply only.

Fixing

The units can be supplied in various proprietary makes of kitchen cabinet or they may be built into specially-constructed fitments. Full details are available on application.

Oven/Grill Unit: The overall width of the cabinet should be 2 ft. 0 in. minimum to give an adequate air space between the casing of the cooker and the timber sides, otherwise the heat may affect the finish on the cabinet. The depth of the cabinet should be 1 ft. 9 in. minimum and at this depth no back is required behind the cooker casing. A vent 2 in. wide should be provided in the back of the cabinet above the oven to allow for an airflow, e.g. by inserting a false back in the cupboard above. The oven is ventilated through a grille at the top front of the unit and it is recommended that any woodwork immediately above the grille be faced with laminated plastic. The base of the recess to take the oven unit is best placed about 1 ft. 9½ in. from the floor so that the bottom of the oven is level with adjacent working tops.

Boiling plate unit: The construction of the cabinet should provide suitable structural members on which the feet of the boiling plate unit can rest: this ensures that the weight of the unit is taken by the body construction and not by the vitreous-enamelled hob. The length of plastic extrusion should be fixed to the cabinet top so as to provide a resilient seating for the outer flanges of the hob and prevent the penetration of moisture. It is not advisable to use laminated plastic facing on the wall immediately behind the boiling plates.

Finish

The units are available in white or cream with the fascia panel and front of the boiling plate switch unit in blue or pink.

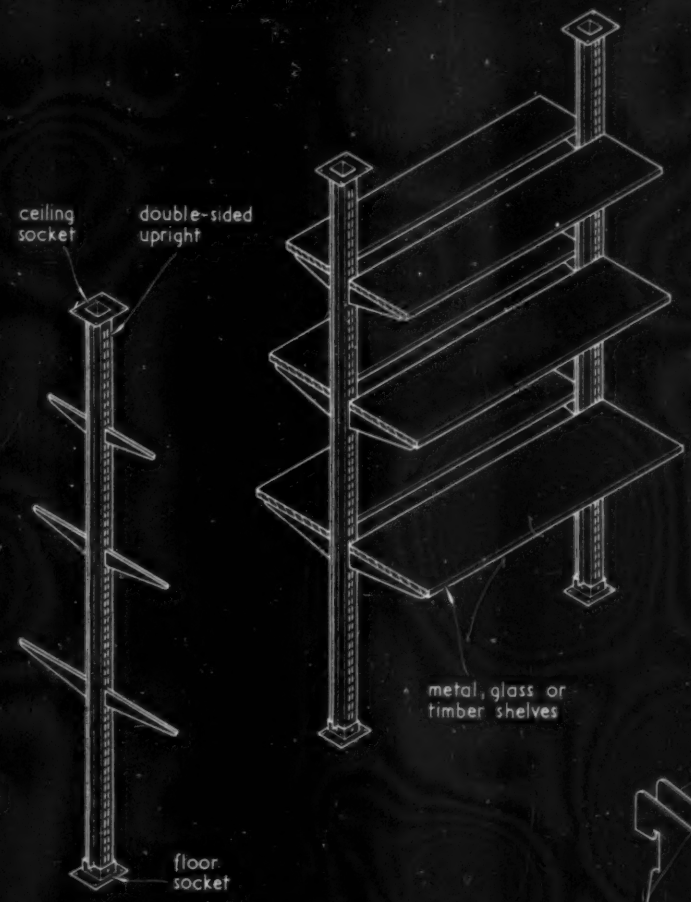
Compiled from information supplied by:

Tricity Cookers Limited
Address: Thorn House, Upper St. Martin's Lane, London, W.C.2.
Telephone: Temple Bar 2444.

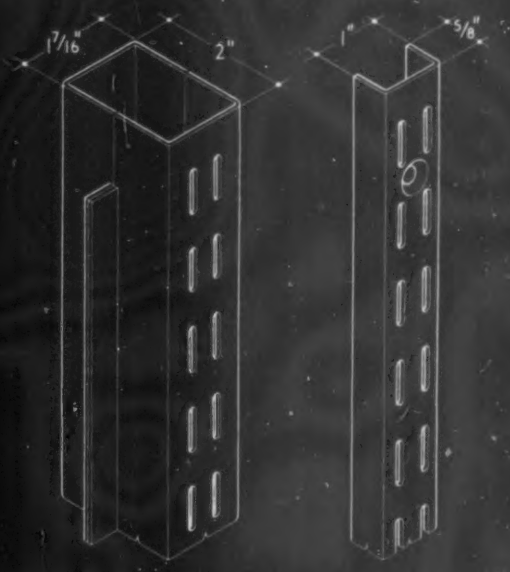
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FURNITURE AND FITTINGS | STEEL | SHELVING

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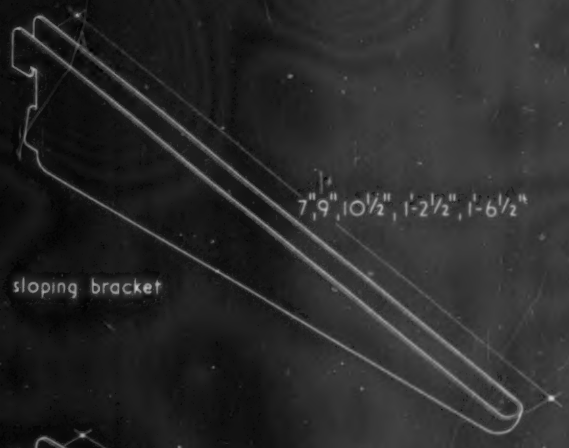


ISOMETRIC SKETCH OF TYPICAL ASSEMBLY.

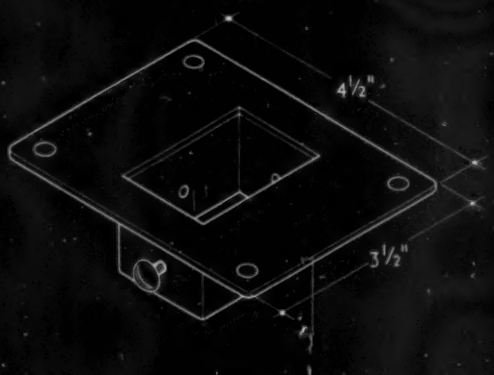


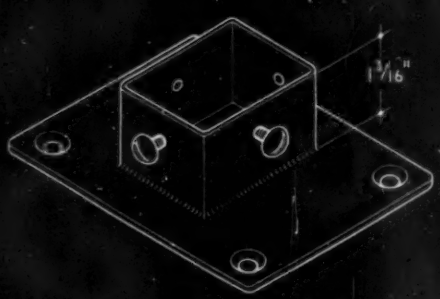
DOUBLE-SIDED UPRIGHT

WALL UPRIGHT

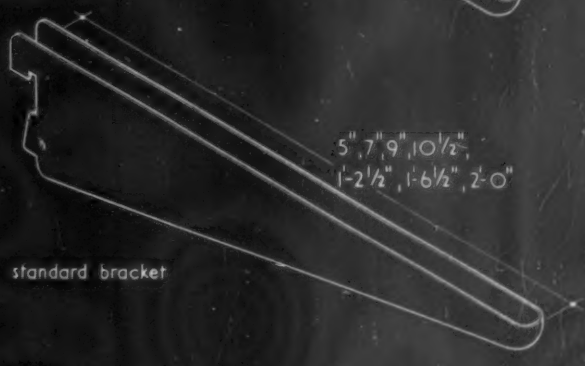


sloping bracket





FLOOR AND CEILING SOCKETS.



standard bracket

note : 5",7" and 9" brackets cover 2 slots in the uprights, all other sizes cover 3 slots

SHELF BRACKETS.

SPUR SHELVING. Manufacturer : Savage and Parsons Limited

42.C8 ·SPUR· SHELVING

This Sheet describes the Spur shelving system of steel uprights and brackets for industrial, display, library or domestic use. Wood or glass shelves can be supported on the brackets by various methods or the manufacturer can supply steel shelves. All shelves are adjustable. The shelving can be wall-mounted or free-standing. Shelf ends and book supports are available and the brackets can be adapted to take Spur bottle-racks. The uprights can, if required, be used to support rails of coat-hooks, etc.

Components

The uprights and brackets are manufactured from 14 gauge steel, bonderised and stove-enamelled.

Wall uprights: These are of channel section 1 in. wide by $\frac{5}{8}$ in. deep with pairs of $\frac{3}{4}$ in. by $\frac{1}{8}$ in. slots to take the shelf brackets at $1\frac{1}{4}$ in. centres. Fixing holes to take no. 14 countersunk woodscrews are provided $1\frac{1}{2}$ in. from each end and intermediately for lengths over 2 ft. 4 in.

Double-sided uprights: Double-sided uprights for free-standing assemblies consist of two flanged channel sections welded together by the flanges.

Floor and ceiling sockets: The floor socket is solid for loadbearing and the ceiling socket has a rectangular hole to facilitate fitting of the uprights. The flanges of the sockets are provided with four $\frac{1}{4}$-in. Whitworth fixing holes and the uprights are held by four round-headed metal thread screws.

Shelf brackets: The bracket is made in one piece as shown in the drawings, with counter-sunk fixing holes drilled underneath. Two types of bracket are available, the standard type at 90° to the uprights and the sloping type at 110° to the uprights,

Shelf fixings: The manufacturer can supply three types of fitting for fixing the shelves. For timber shelves, a steel strip is available which is screwed to the end of the shelf and projects below it. The strip slides into the slot in the bracket. Alternatively, a screw bush can be supplied which is inserted into the underside of the shelf and fits into the slot in the bracket. For jointing timber shelves a $1\frac{1}{2}$-in. steel jointing plate is available which also fits into the bracket. Special chromium-plated clips are obtainable for holding glass shelves.

Additional fittings: The following fittings can be supplied, if required, for use with the shelving system: shelf ends, book supports, cross bars with a choice of adjustable coat hooks, bottle racks, cabinet brackets and special brackets to take storage rails.

Sizes

Wall uprights: These are 1 in. wide by $\frac{5}{8}$ in. deep and available in lengths from $4\frac{1}{4}$ in. to 7 ft. $10\frac{1}{4}$ in.

Double-sided uprights: These are $1\frac{7}{16}$ in. wide (excluding the flanges) by 2 in. deep and available in lengths from 1 ft. $3\frac{1}{2}$ in. to 7 ft. $11\frac{1}{2}$ in.

Shelf brackets: Standard brackets are in lengths from 5 in. to 2 ft. 0 in., as shown in the drawing and sloping brackets from 7 in. to 1 ft. $6\frac{1}{2}$ in. The larger sizes of both types of bracket span three sets of slots in the uprights, the smaller sizes, two sets.

Steel shelves: Steel shelves are obtainable in four widths 7 in., $10\frac{1}{2}$ in., 1 ft. $2\frac{1}{2}$ in. and 1 ft. $6\frac{1}{2}$ in., in lengths of 2 ft. 0 in. or 3 ft. 0 in.

Loading

The following table gives the load-carrying capacity of the brackets, standard and sloping:

Length of bracket (ft. and in.)	5 (standard only)	7	9	$10\frac{1}{2}$	1–$2\frac{1}{2}$	1–$6\frac{1}{2}$	2–0 (standard only)
Capacity per bracket (lb.)	140	100	75	65	100	80	60

Fixing

Wall uprights are fixed by no. 14 countersunk woodscrews 2 in. to 3 in. long, depending on the type of wall and the load to be carried by the shelves. If desired, the uprights can be recessed in grooves cut in the wall surface or panelled in with hardboard or similar material to give a flush finish to the wall. Both types of upright should normally be spaced at 3 ft. 0 in. centres but for heavy loads at 2 ft. 0 in. centres. Where a permanent fixing of the shelves to the brackets is desired, they can be bolted or screwed through the fixing holes in the brackets.

Colours and Finishes

The standard colours are grey and white but terra-cotta and black can be supplied to order. Zinc-sprayed galvanised, nickel or chromium finishes can also be supplied to order.

Compiled from information supplied by:

Savage and Parsons Limited
Address: Watford, Hertfordshire.
Telephone: Watford 26071.

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SUSPENDED CEILING: PUBLIC HOUSE IN LONDON, W.1

J. M. Austin-Smith and Partners, architects

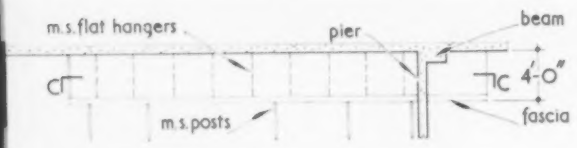


This suspended ceiling is composed of an upper part made of plywood on a m.s. angle frame which, in turn, rests on a "raft" of Parana pine slats. Note the method of supporting the raft on m.s. posts which penetrate the raft visually and are secured to a m.s. flat above the plywood ceiling.

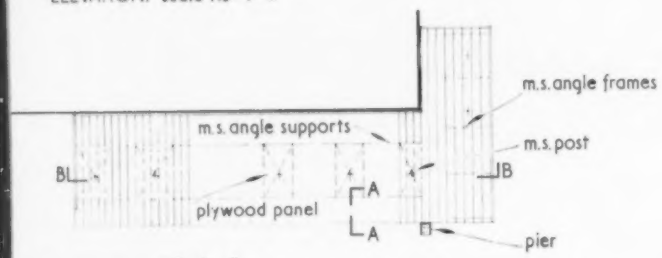
working detail

SUSPENDED CEILING: PUBLIC HOUSE IN LONDON, W.1

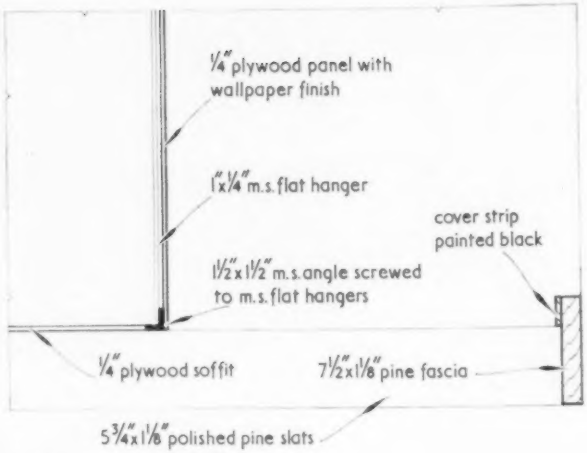
J. M. Austin-Smith and Partners, architects



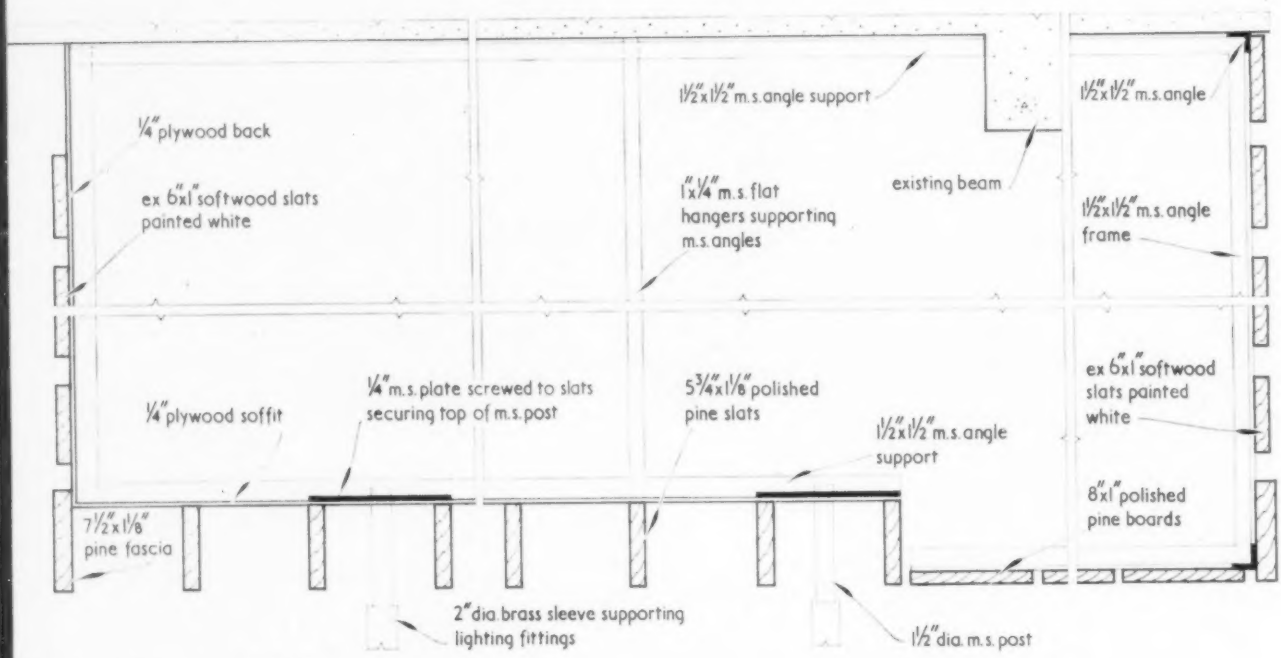
ELEVATION. scale 1/16"=1'-0"



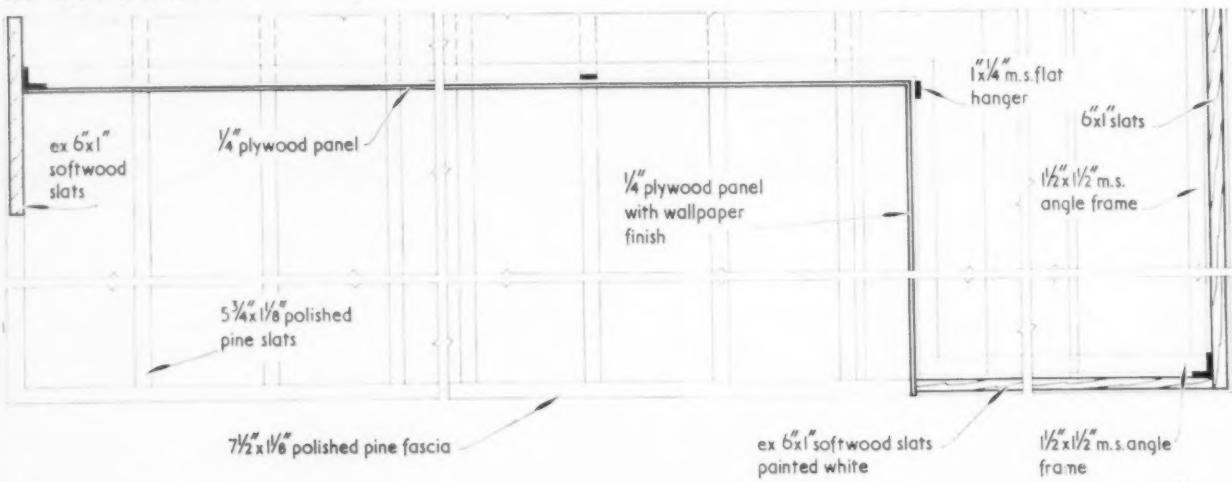
PLAN. scale 1/16"=1'-0"



SECTION A-A. scale 1"=1'-0"



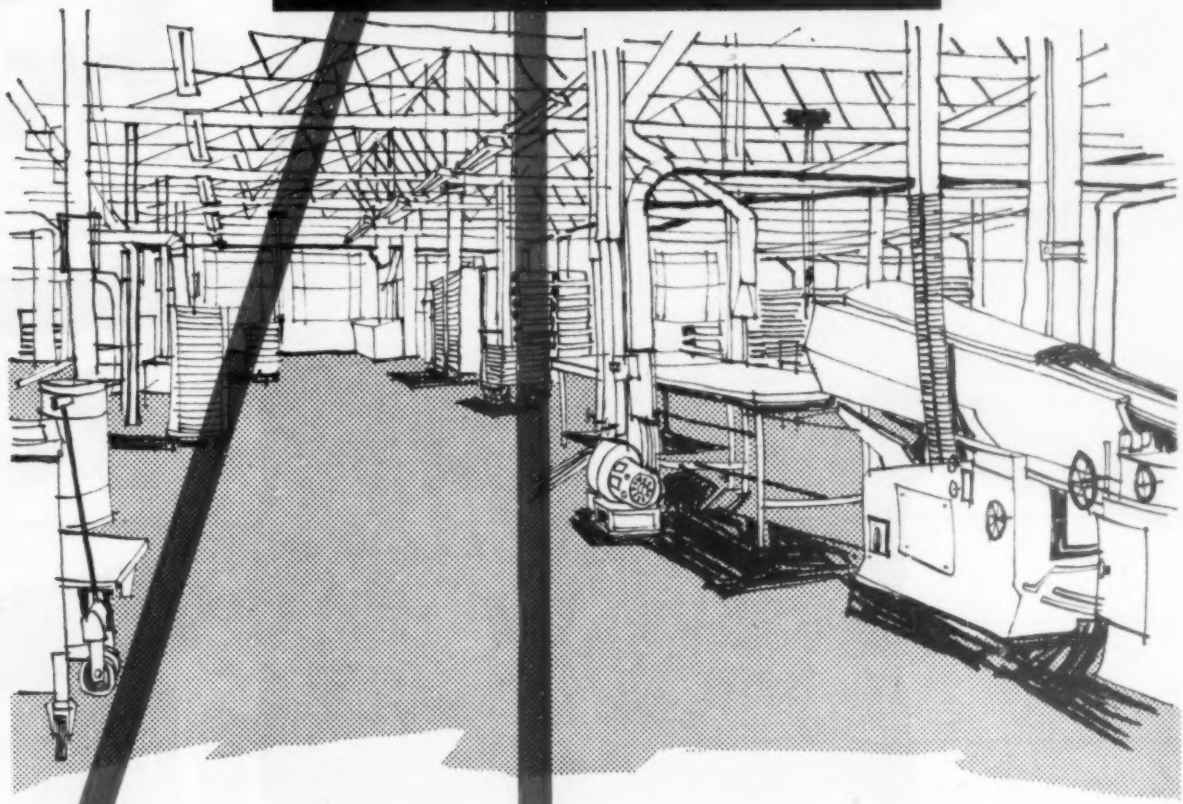
SECTION B–B. scale 1"=1'-0"



PLAN AT C–C. scale 1"=1'-0"

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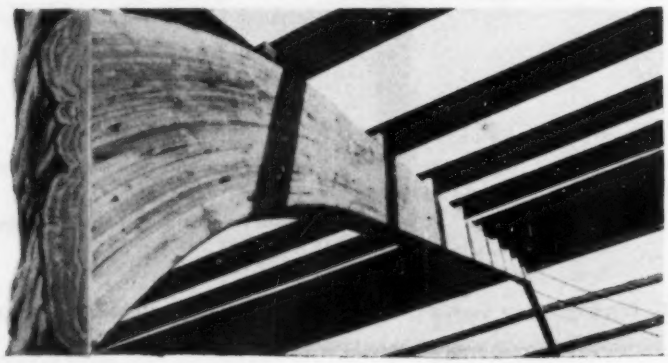
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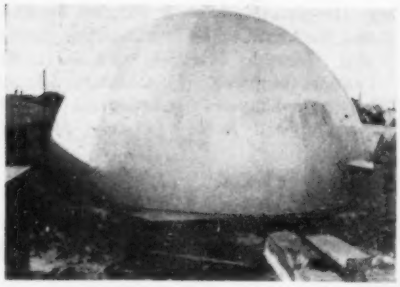
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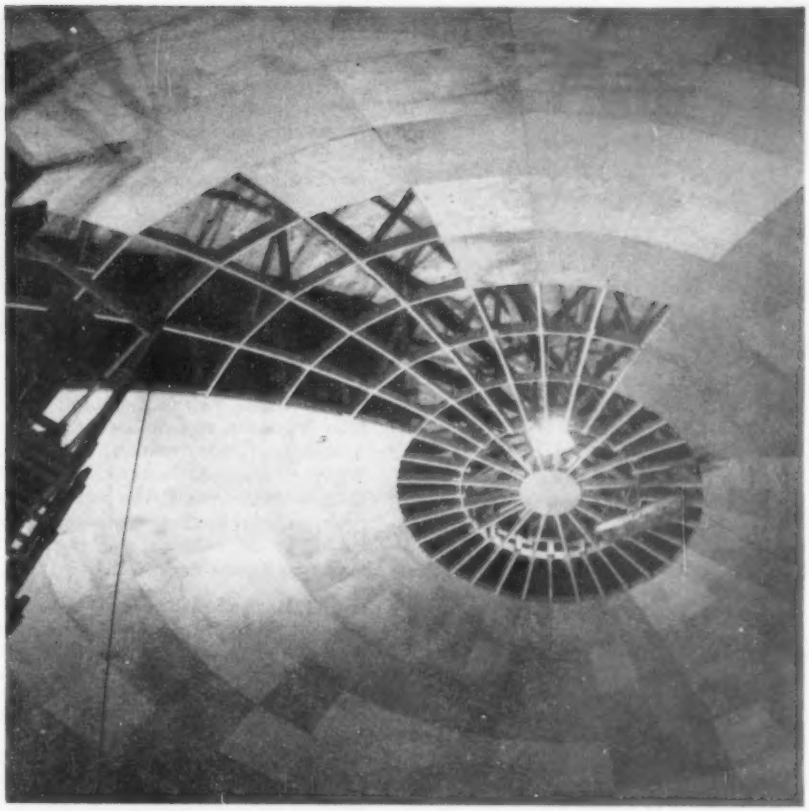


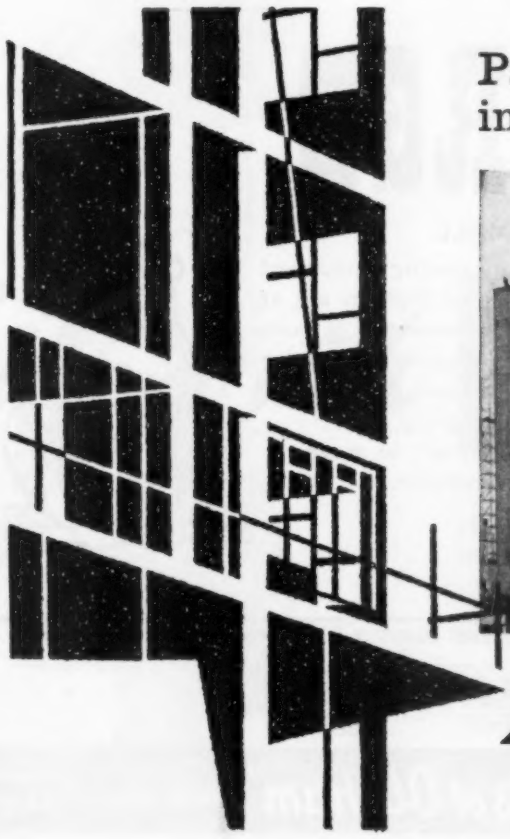
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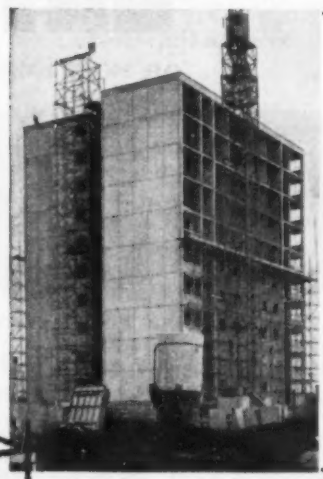
Timber Dome

This 75 ft. diameter dome, designed by Hume and Tottenham, has recently been completed at Stillington, Co. Durham. The outer dome is formed of two layers of ¾-in. tongued and grooved boarding on laminated timber ribs, finished externally with patent waterproofing. The interior is lined with a plywood skin on a timber frame separate from the outer skin. The main structure and finishing of the outer dome was completed in roughly three months at a cost of about 16s. per sq. ft. It has been designed to meet design criteria laid down by the Timber Development Association.





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Announcements

PROFESSIONAL

John B. Morton, A.A.Dipl., A.R.I.B.A., and Brian H. Harmsworth, A.R.I.B.A., Dipl.Arch., A.R.C.M. (Morton & Harmsworth), have moved to 21, North Street, Horsham, Sussex. (Telephone: Horsham 60181-2.)

The London office of Manning & Clamp is now at 37 Norfolk Street, Strand, London, W.C.2. (Telephone: COVent Garden 0016.)

Kenneth F. Spicer, F.I.A.S., F.I.Q.S., M.R.S.H., corporate quantity surveyor, has moved to 1A, Cavendish Square, London, W.1. (Telephone: LANgham 4805/6/7.)

Sidney L. Belfer, A.R.I.B.A., has resigned from his partnership with Lewis Solomon Kaye & Partners, and has started his own practice at 83, Bedford Court Mansions, Bedford Avenue, W.C.1. (Telephone: LANgham 6337.) He will be pleased to receive trade literature and requires representatives to make appointments.

David Brain, DES.R.C.A., A.A.Dipl., A.R.I.B.A., has started his own architectural and industrial design practice at 38, Pottery Lane, Holland Park, London, W.11 (Telephone: PARk 1922), where he will be pleased to receive trade literature.

W. H. Saunders & Son (John H. Saunders, L.R.I.B.A., F.R.S.A., R. W. Leggatt, A.R.I.B.A., A.M.T.P.I., K. Newton, M.S.E., A.I.A.S.), architects and surveyors, have taken into full partnership A. M. Seward, A.R.I.B.A. John Scaife, A.R.I.B.A., has become an associate at the London office and C. W. Hewett, A.R.I.B.A., an associate at the Southampton office.

The architectural and town planning practice of Grenfell Baines & Hargreaves, and the quantity surveying practice of Arnold E. Towler have been merged into one organisation to be known as Design Partnership. The founder partners are George Grenfell Baines, O.B.E., F.R.I.B.A., Dipl.T.P., M.T.P.I., John Wilkinson, Dipl.Arch.(Manc.), A.R.I.B.A., Arnold E. Towler, F.R.I.C.S., and William White, A.A.Dipl.Hons., A.R.I.B.A. Mr. Thomas Hargreaves has retired. The partnership will cover all the professions connected with the design of buildings and physical environment generally.

Kenneth Wakeford, Jerram & Harris have taken into partnership J. W. Fraser, A.R.I.B.A., who has been managing their Bristol office.

Ronald Ward & Associates will be pleased to receive trade literature at 208, Broad Street, Lagos, Nigeria (Private Bag 2079).

J. Douglass Mathews & Partners announce that they have taken into associate partnership Ronald Marshall, A.R.I.B.A., Roy Latham, Dipl.Arch. (Manchester), A.R.I.B.A., Michael Simpson, M.A.(Cantab), B.Arch., A.R.I.B.A., and Robert D. Gay, Dipl.Arch., A.R.I.B.A.

Donald Forrest, A.R.I.B.A., has opened a London office at 11, Gray's Inn Square, W.C.1, where he will be pleased to receive trade literature.

Blyth & Blyth, consulting structural engineers of Edinburgh, have opened a branch office in Portland Street, Manchester, and would be pleased to receive trade literature.

TRADE

Williaam J. Cox (Sales) Ltd. have appointed James Burden as a sales representative for their rooflights.

E. Lyle Pixton, managing director of British Plimber Ltd., has resigned from the company.

Correction

The telephone number of J. W. Ball, 22, Welbeck Way, Welbeck Street, W.1, should be WELbeck 7115.



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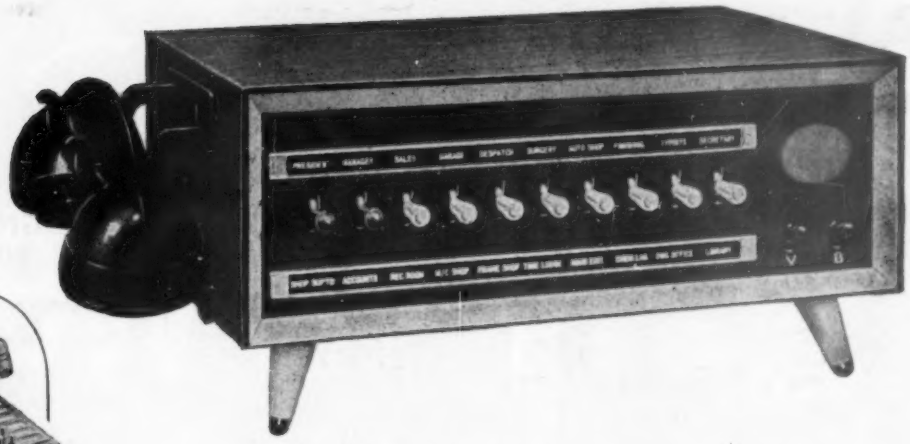
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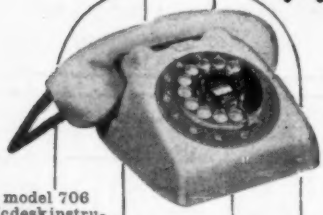
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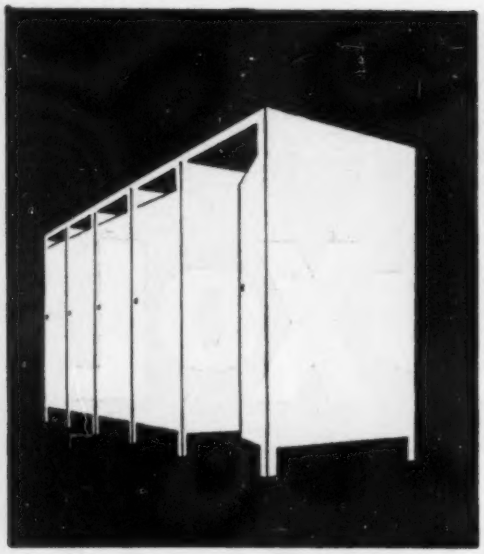
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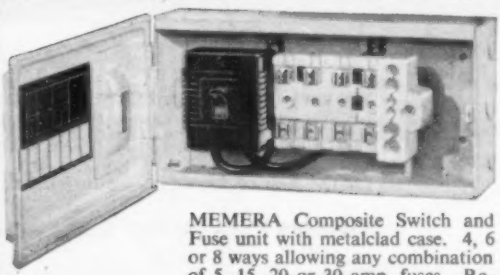
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This aerial view shows the Lee Chapel area of the Basildon new town housing scheme, where MEM switch and fuse units and 13 amp. socket outlets were used exclusively. The extensive nature of this contract reflects the increasing use of MEM switchgear and accessories on the country's major housing projects.

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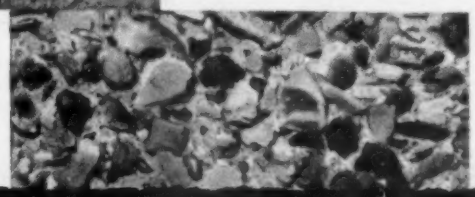
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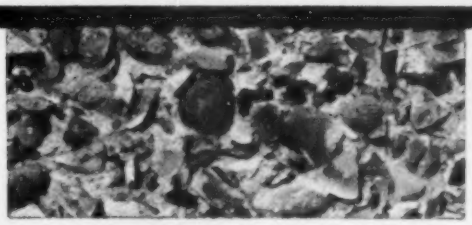
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Letters of John Keats.

By A.F.B. Nall, A.M.I.San.E., A.M. Inst. W.

The link between cleanliness and comfort has been recognized for a considerable time; that between comfort and productivity for a much shorter period. Nevertheless, it is now well-established that workers produce more goods of better quality if their conditions are clean and congenial. There is not only the effect during their working hours to consider: good conditions mean less "time off" and good sanitation is the most important aspect of good conditions. Truly, if one is clean, then one is comfortable and can get down to work with a will.

Ceramic-Glazed Fireclay Sanitaryware accords well with modern concepts of industrial architecture. Just as the present-day factory is airy, spacious and well-lit, with a judicious use of colour in its decoration, so are modern designs of Fireclay Sanitaryware of simple and harmonious outline, free from complicated shapes which may create dust and germ traps, thus accentuating the gleaming, high-lustre glaze—as though inviting the user to challenge its sparkling cleanliness.

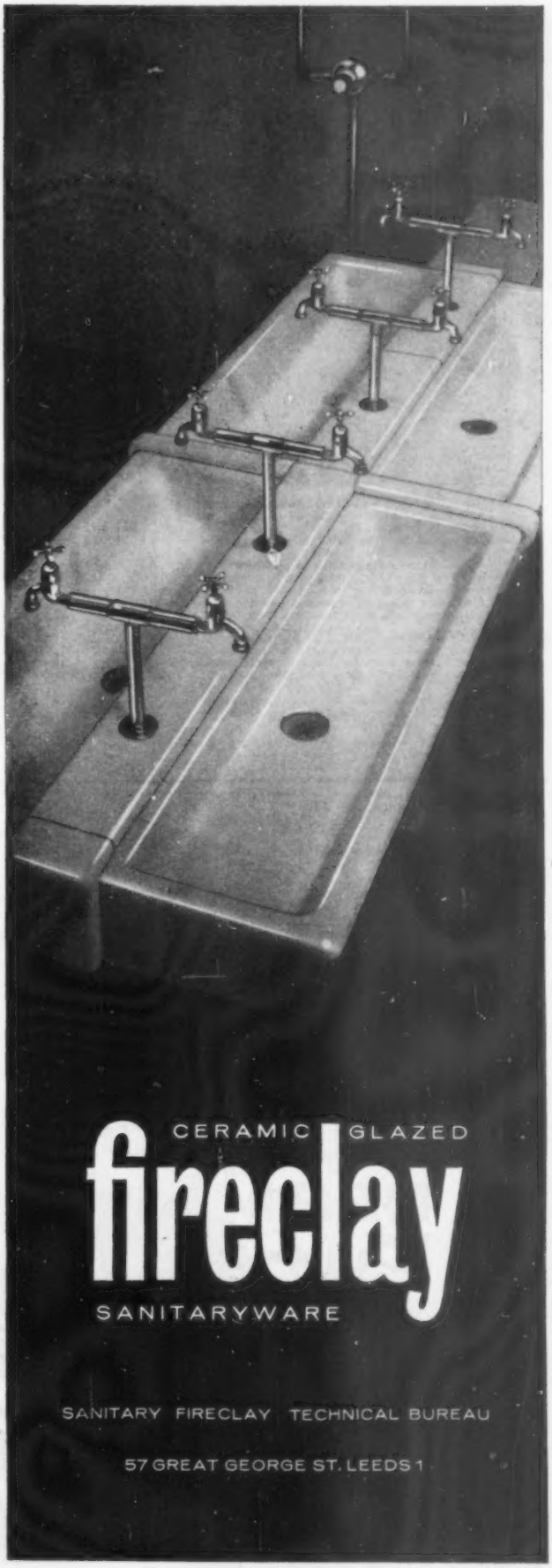
Fireclay Sanitaryware has a special contribution to make under the arduous conditions of factory installation, because it possesses unrivalled strength—the foundation of durability—and its hard, tough body is the ideal base for a vitrified glaze, the feature by which all sanitary ware is judged. This glaze is impervious to acids and alkalis and provides a smooth, glossy, china-like surface which retains its pristine sheen with a minimum of attention.

Ceramic-Glazed Fireclay covers a complete range of appliances for factory use, whether in canteen, wash-room, toilet or first-aid post. There are hand basins for individual or range mounting; island-type ablution troughs for coping with rush periods; water closets with corbel-type pans for easy floor cleaning; sinks with draining boards and work slabs for kitchens; hospital-type appliances backed by years of co-operation with Architects in the design of sanitary equipment for operating theatres and wards and therefore highly suitable for any kind of casualty and first-aid post. Many of these articles can be obtained in colour if desired.

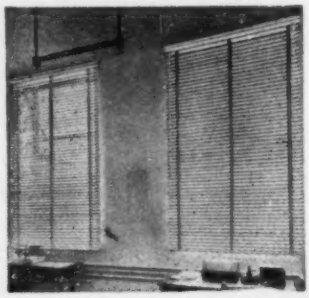
In any factory in which the welfare of the employees is given due prominence (not only for their own sakes, but for its effect on industrial relations and productivity) a full range of good sanitary appliances is essential. The "dark, satanic mills" of the industrial revolution have been out-moded by the Factory Acts and the requirements of H. M. Inspectors but, apart from such considerations, it has been shown that there are tangible benefits to be derived from the generous provision of amenities. Such generosity is best expressed—in this context—by the installation of well-designed Ceramic Glazed Fireclay Sanitaryware, a real essential for the modern factory and equally so for schemes of modernisation.

A fully illustrated booklet, published in the interest of more and better hygiene and sanitation is available on request.

See the exhibits at the Building Centres, London, Manchester, and Bristol.



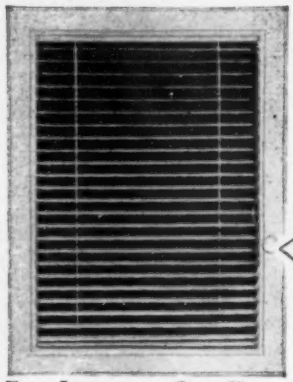
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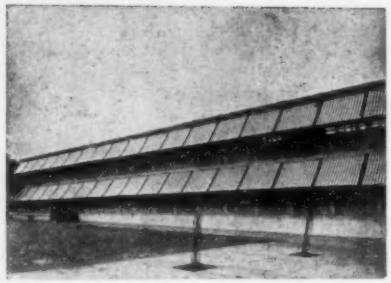
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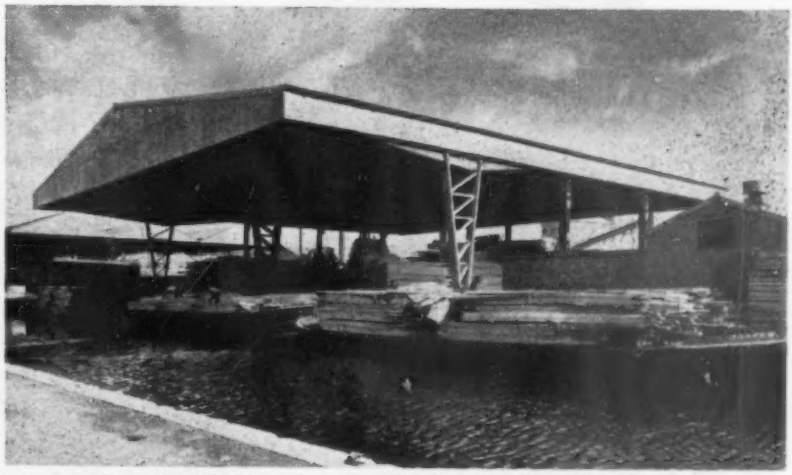
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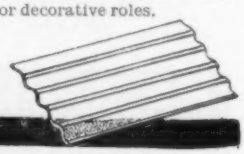
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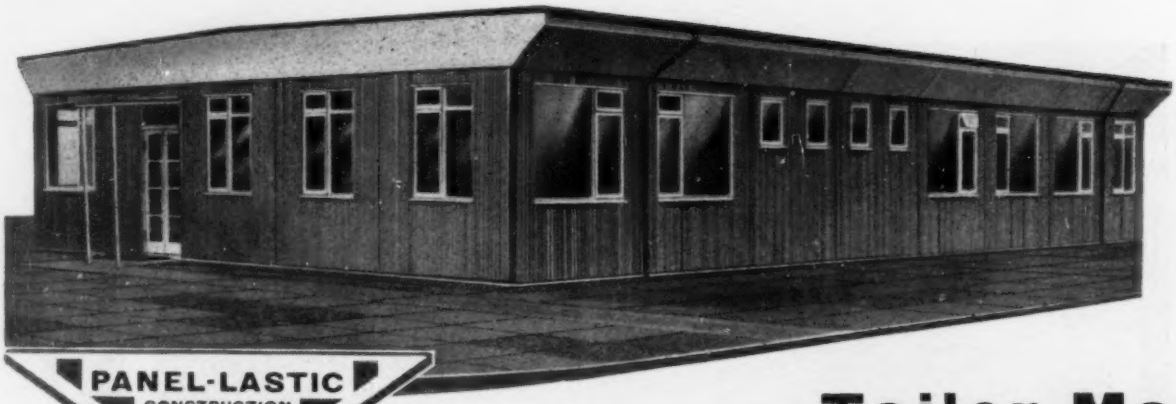
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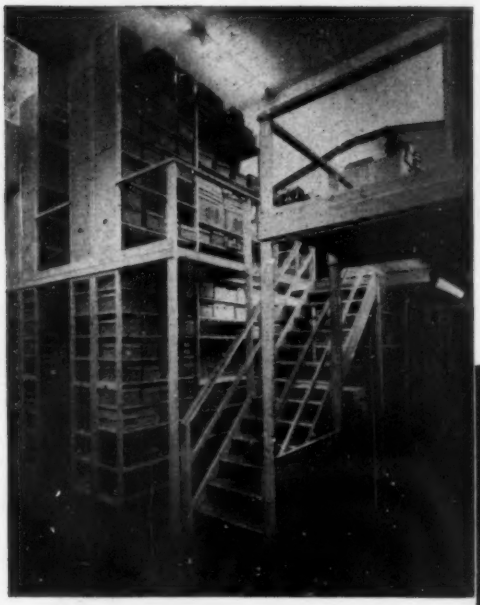
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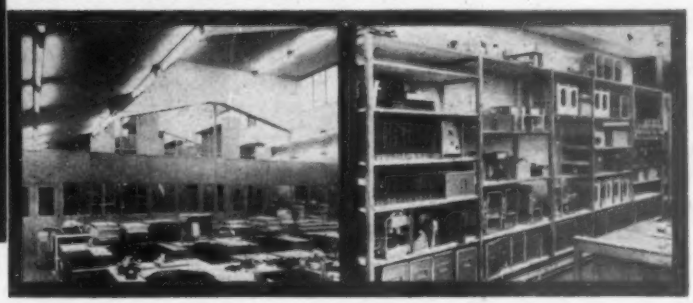
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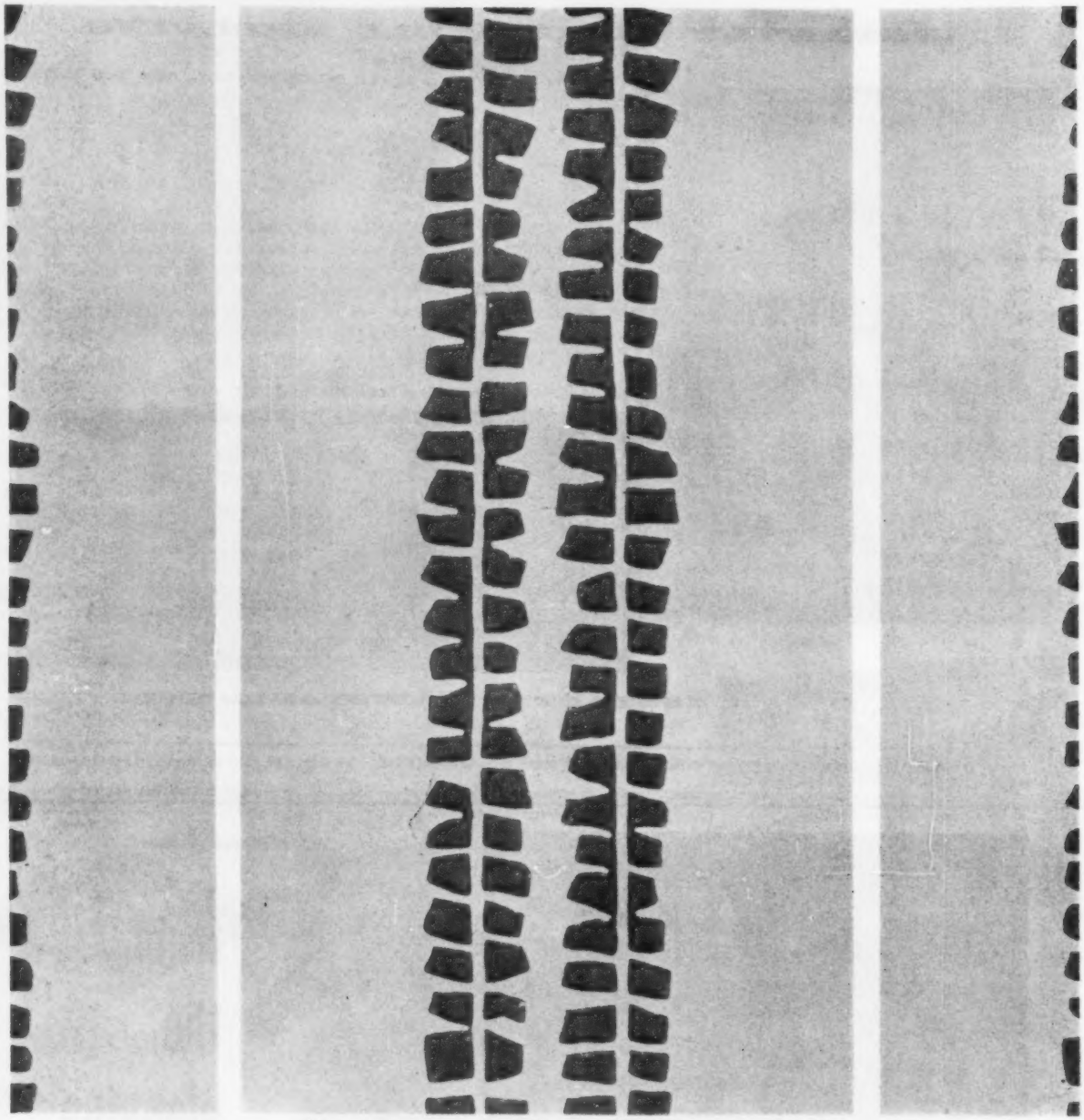


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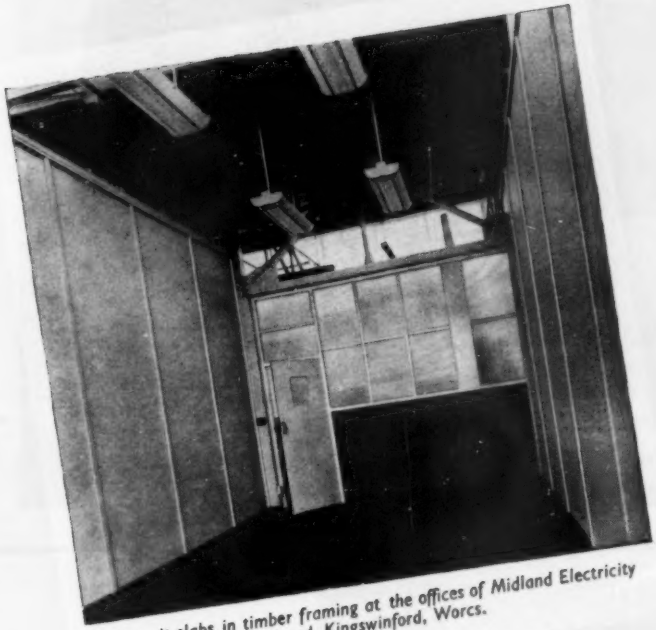
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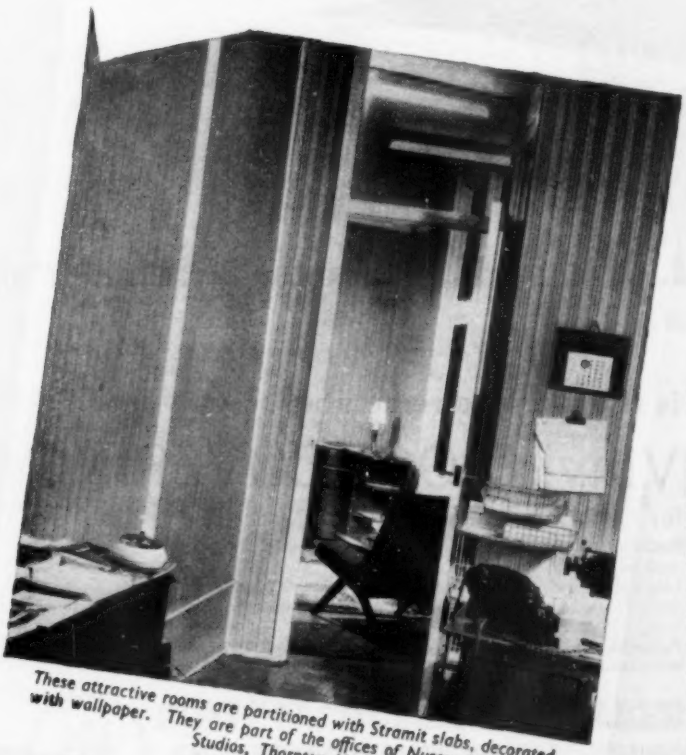
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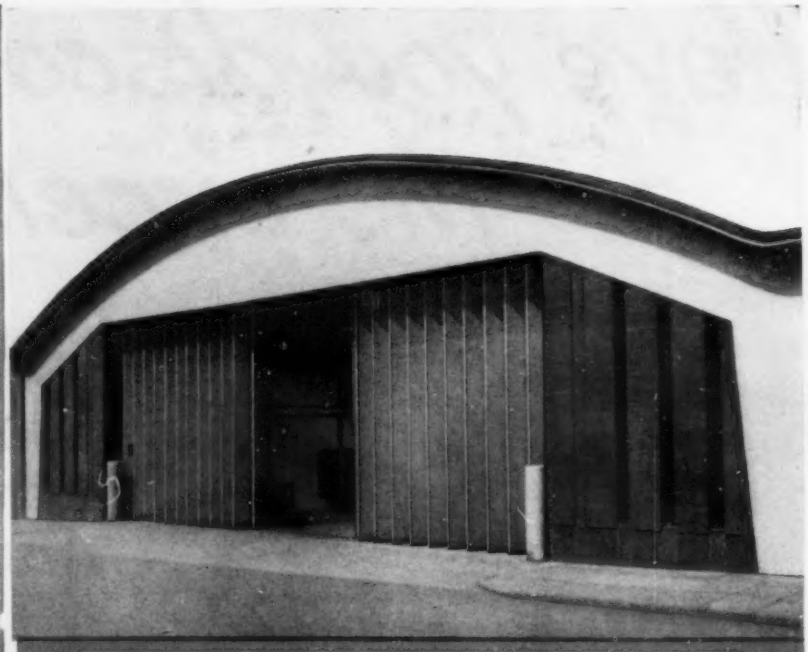
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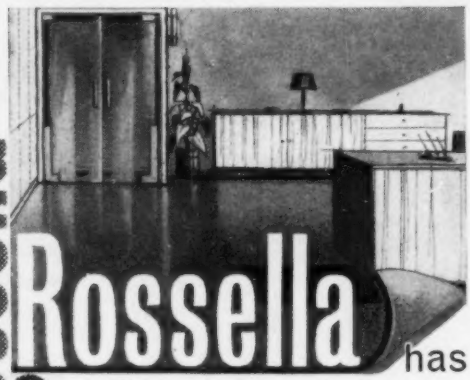
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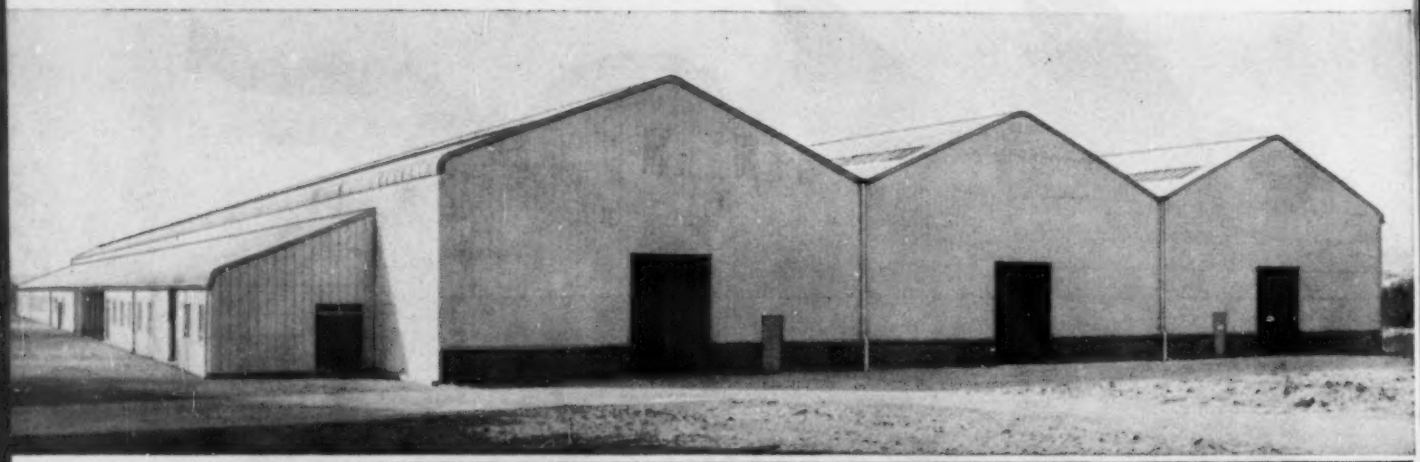
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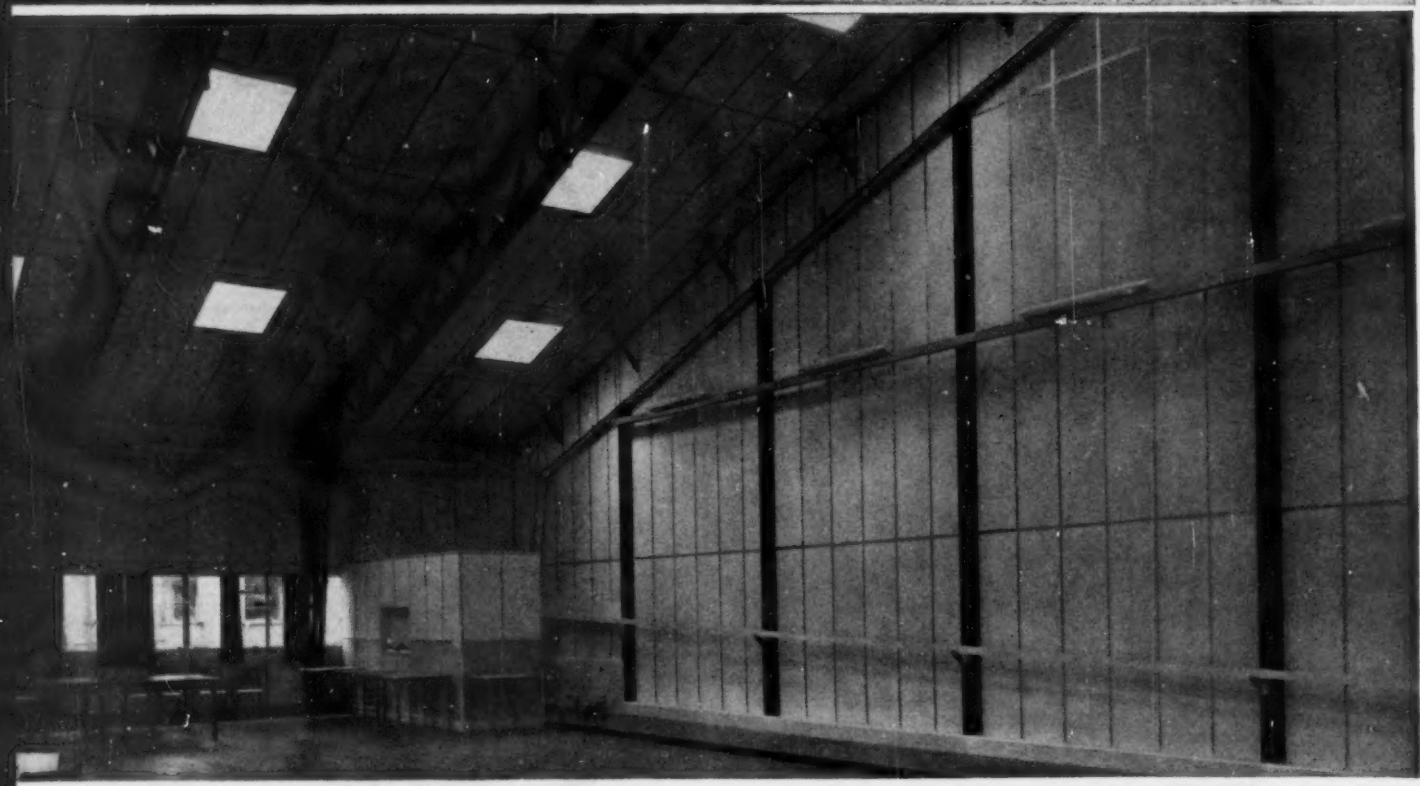
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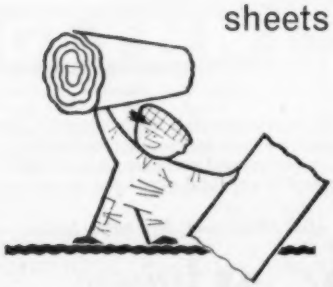


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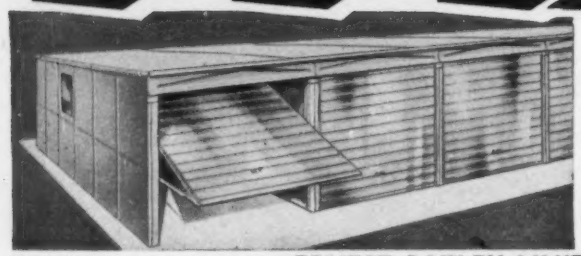
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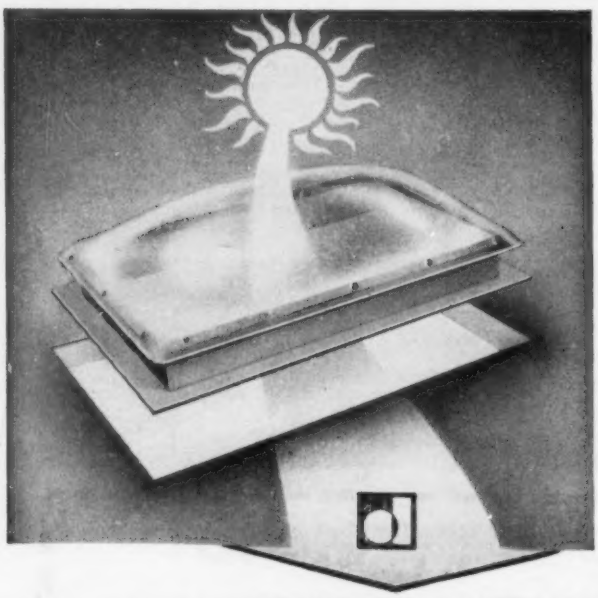


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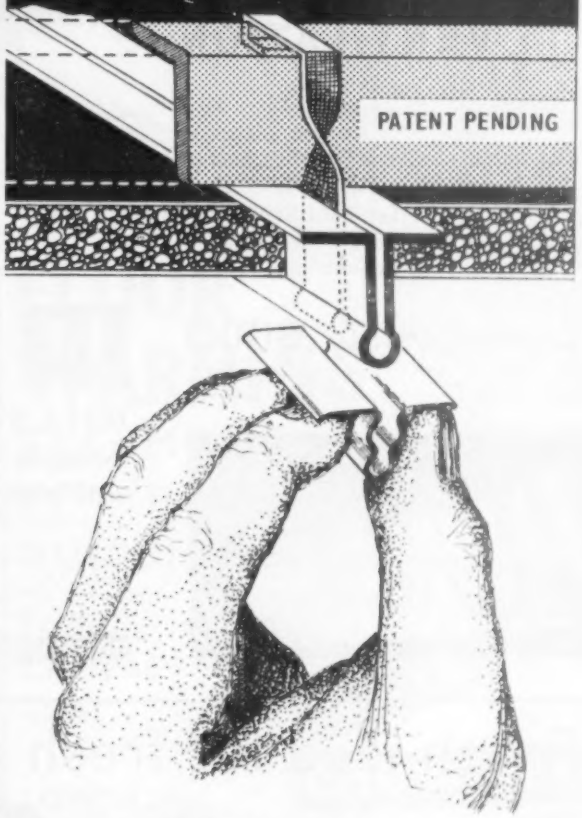
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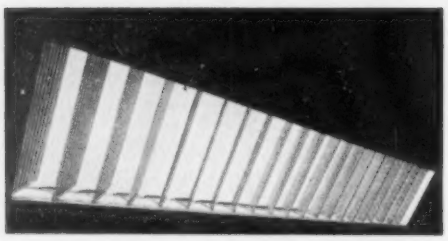
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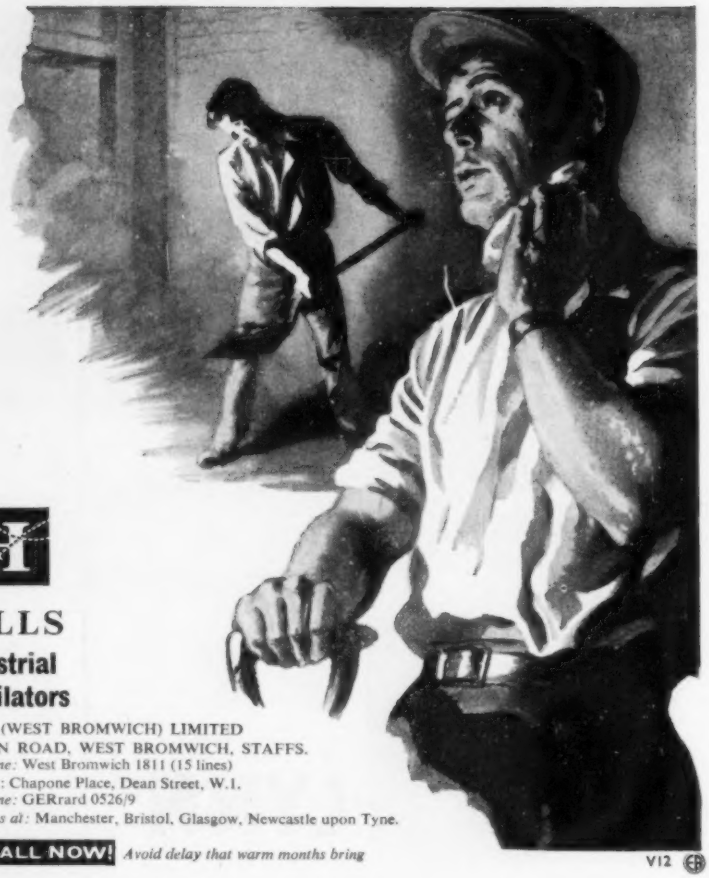
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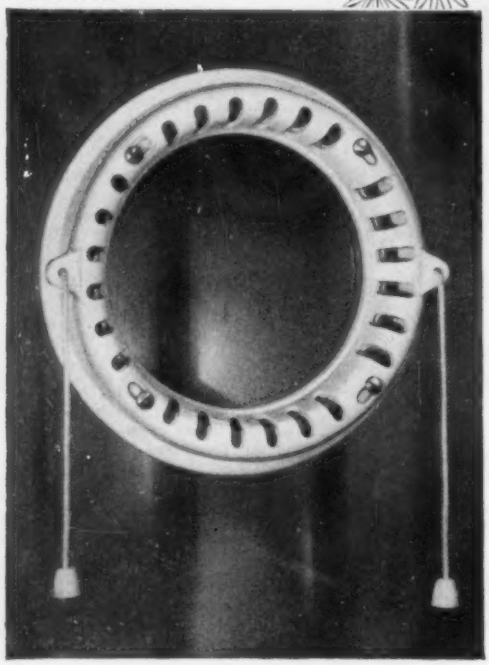
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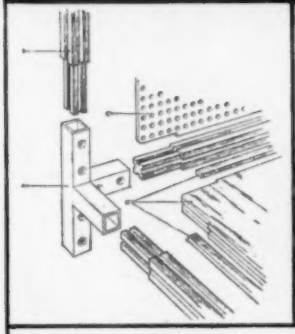
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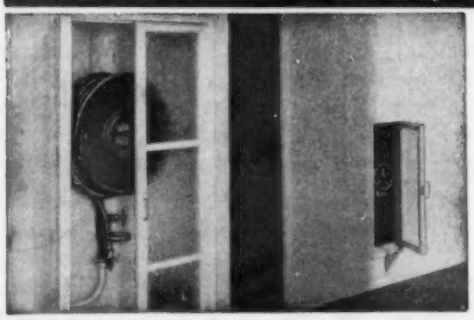
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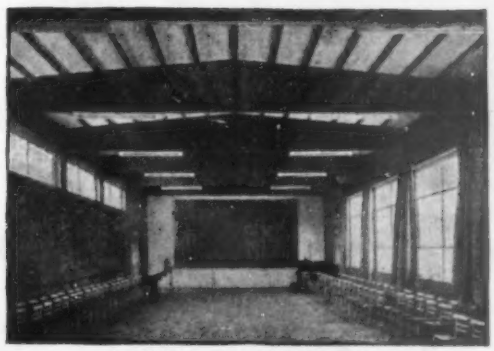
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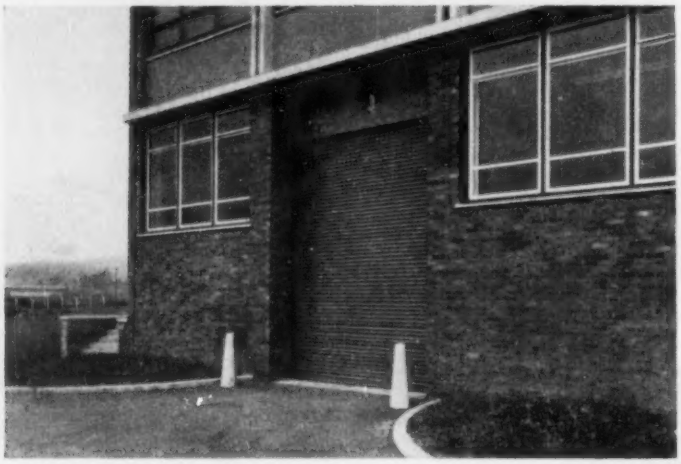


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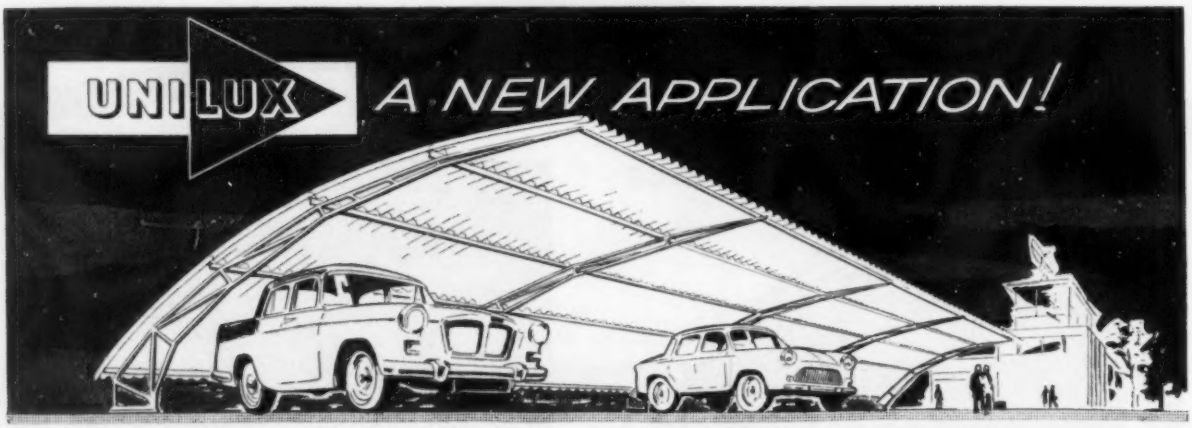
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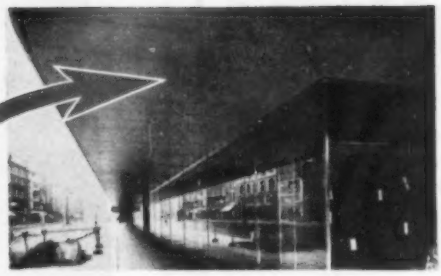
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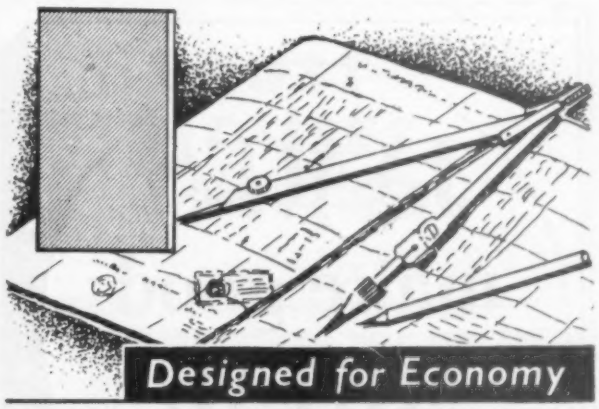
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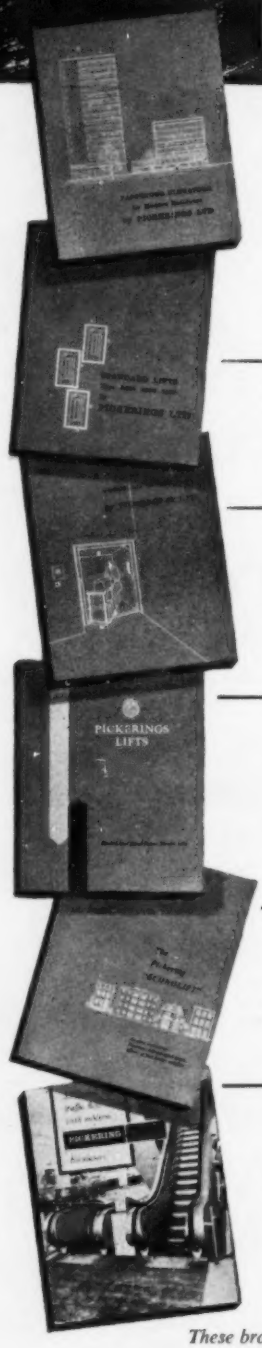
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CITY AND COUNTY OF NEWCASTLE UPON TYNE
CITY ARCHITECT'S DEPARTMENT

A unique opportunity exists in this office for competent Architects to take part in one of the most ambitious programmes of varied building works in the country, and vacancies in the establishment occur for ARCHITECTS who will be considered on their ability in design, experience, and architectural outlook, in the following grades:—

J.N.C. "C": £1,560—£1,825 per annum.
J.N.C. "B": £1,410—£1,670 per annum.
A.P.T. V: £1,310—£1,480 per annum.
A.P.T. IV: £1,140—£1,310 per annum.
A.P.T. III: £960—£1,140 per annum.
A.P.T. II: £815—£960 per annum.
A.P.T. I: £645—£815 per annum.

The Department is engaged upon a wide and varied programme of major redevelopment schemes embracing multi-storey flats, shopping precincts and associated community buildings, one of which schemes is the Scotswood Road Redevelopment Area to rehouse approximately 5,000 people, and which is expected to cost in the region of £12 million.

Planning work has now commenced on the new Education Precinct in the central area, comprising Colleges of Further Education. Art and Industrial Design, Drama, Commerce and Multi-storey Hostels, which will be the largest development of its kind in the country.

Further projects include: Airport Terminal; Abattoir and Fatstock Market; Vegetable Markets, Central Library; and Divisional Police Headquarters, etc., and a varied programme of normal housing development of a stimulating character.

The department is also engaged on the New Town Hall, where an exceptional opportunity is presented for working on a building of some £4 million in value, and being executed in materials of the highest quality.

Architects wishing to take part in one of Britain's most stimulating programmes should apply immediately for further details and forms of application to George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect, 18, Cloth Market, Newcastle upon Tyne, 1, indicating the grade for which they wish to apply.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.
20th February, 1961. 6084

ISLE OF ELY COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT

Applications are invited for the following appointments:—

(a) SENIOR ASSISTANT ARCHITECT, A.P.T. V. Applicants must be A.R.I.B.A. with experience. Terms of appointment include Essential User Car Allowance on the County Scale for a car not exceeding 1,199 c.c.

(b) ASSISTANT ARCHITECTS, A.P.T. III or A.P.T. IV according to experience. Applicants should be A.R.I.B.A. or have completed Parts I and II of the R.I.B.A. Final Examination, or have satisfactorily completed a course at a School of Architecture.

In fixing commencing salaries, ability and experience will be taken into account. All posts are subject to N.J.C. Conditions and the passing of a medical examination.

Application forms and further particulars from the County Architect, County Hall, March, Cambs., to whom they should be returned not later than 8th May, 1961.

R. F. G. THURLOW,
Clerk of the County Council.
6849

EAST SUSSEX COUNTY COUNCIL
COUNTY PLANNING OFFICE

Applications are invited for the following permanent appointment on the Headquarters Staff at Lewes for responsible duties in connection with the preparation and review of Development Plans:—

PLANNING ASSISTANT at a salary within N.J.C. Scale A.P.T. IV (£1,140 to £1,310 per annum).

Applicants should hold a recognised qualification in Town Planning or an associate discipline and should have had considerable experience in the preparation of Town Maps.

Further particulars and application forms from County Planning Officer, County Hall, Lewes, Sussex, to whom applications should be delivered not later than 1st May, 1961. 6864

LANCASHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
SENIOR ASSISTANT ARCHITECTS
(N.J.C. Scale "B." £1,505—£1,670)

Applications are invited from experienced Architects for posts on the permanent staff. The County Council has a large and extremely varied Building Programme, and posts will be filled by men of initiative, imagination and a flair for sensitive design.

Applicants are expected to be Registered Architects, as well as Associates of the Royal Institute of British Architects and, if appointed, will be able to claim a disturbance allowance up to a maximum of £125, a facility offered by the County Council to cover the expenses of removal and other associated costs.

Application forms and conditions of appointment are obtainable from the County Architect, P.O. Box 26, County Hall, Preston, returnable by the 5th May, 1961. 6942

WARWICKSHIRE COUNTY COUNCIL
COUNTY PLANNING DEPARTMENT

Applications are invited for THREE posts on GRADE A.P.T. IV.

Applicants must have experience of development plan work and will be engaged on the Plan review. They should be qualified professionally and will be stationed at Warwick where all planning work is undertaken.

The commencing salary in each case will be according to experience and qualifications. The posts are subject to the provisions of the Local Government Superannuation Act and to a medical examination. Financial assistance will be given towards removal expenses.

Applications, together with the names and addresses of two referees, should be sent to J. J. Brooks, County Planning Officer, Northgate, Warwick, not later than Saturday, 29th April, 1961.

L. EDGAR STEPHENS,
Clerk of the Council.

Shire Hall,
Warwick. 6884

CITY OF WORCESTER
APPOINTMENT OF ARCHITECTURAL STAFF

Applications are invited to fill new appointments in the Architectural Section of the City Engineer & Surveyor's Department within the grades shown.

SENIOR ASSISTANT ARCHITECT—A.P.T. Grade IV (Salary £1,140—£1,310). Applicants must hold the A.R.I.B.A. qualification.

TWO ARCHITECTURAL ASSISTANTS—A.P.T. Grade I/II (Salary £645—£960).

The appointments are superannuable and subject to medical examination.

Housing accommodation will be offered, if necessary, and the Corporation are prepared to make a contribution towards removal expenses.

Casual Users' Car Allowance will be applicable.

Applications, stating age, present and previous appointments and experience, together with the names of two referees, are to be sent to the City Engineer & Surveyor, 22, Bridge Street, Worcester, by 26th April, 1961.

BERTRAM WEBSTER,
Town Clerk.

Guildhall,
Worcester. 6880

BOROUGH OF COLCHESTER
BOROUGH ARCHITECT'S DEPARTMENT

Applications are invited for the appointment of ASSISTANT ARCHITECT on A.P.T. IV, £1,140—£1,310 per annum. Applicants must be Associate Members of the Royal Institute of British Architects.

Work is of varied interest comprising Housing, Municipal Offices, and other new building projects and the maintenance of a wide range of Corporate properties.

The successful candidate will be required to pass a medical examination. Five-day week in operation. The Council will be prepared to assist in the provision of housing accommodation, if required, and to contribute towards removal expenses.

Applications, stating age, qualifications, experience, together with the names of two referees, should be submitted to the Borough Architect, Vinton Hall, A.R.I.B.A., A.M.T.P.I., 64, West Stockwell Street, Colchester, by Wednesday, 26th April, 1961.

N. CATCHPOLE,
Town Clerk.

Town Hall,
Colchester.
April, 1961. 6923

METROPOLITAN BOROUGH OF BERMONDSEY

Applications are invited from persons under 51 years of age for following temporary appointments.

SENIOR ASSISTANT ARCHITECT, required for about two years to design a Public Baths and later to lead a small group in the preparation of working drawings and specifications. Applicants must be qualified by examination as Associates of the R.I.B.A. Salary up to £1,565 per annum according to qualifications and experience.

ASSISTANT IN ARCHITECTS' SECTION. Applicants must have passed Intermediate examination of R.I.E.A. or R.I.C.S. and have experience in surveying old housing properties and preparing conversion and improvement schemes. Salary at a point in A.P.T. III or IV (£960—£1,310) plus London weighting, according to experience.

Applications for both appointments should be addressed to Borough Engineer and Surveyor, Municipal Offices, Spa Road, S.E.16. 6824

OXFORDSHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT

Applications are invited from suitably qualified engineers for the post of HEATING AND VENTILATING ENGINEER, salary J.N.C. Scale "B" (£1,410—£1,670). This is a new appointment to advise on this aspect of the department's work. A knowledge of electrical installations would be an advantage.

The appointment is superannuable and subject to medical examination.

Application forms and further particulars to be obtained from the undersigned to be returned by the 8th May, 1961.

ALBERT E. SMITH,
County Architect.

Park End Street Offices,
Oxford. 6973

DESIGNING FOR LONDON

New houses, flats, maisonettes, schools, town development schemes (including houses and factories), hostels, youth centres, out county housing, club rooms, shops, supply depots, homes for old people, fire stations, drill towers, pumping stations and sewage works, ambulance stations, maternity and child welfare clinics, health hostels, health training centres, children's homes, reception centres, approved schools, road improvements and associated architectural works.

Adaptations, modernisation, rehabilitation, improvements.

Have you thought of joining the L.C.C?

- Unique opportunity to produce buildings for the public service with the highest possible standards of design.
- Wide range of buildings enables individuals to be used according to their special abilities.
- Contact with the latest developments and techniques through the central materials and development section.
- Promotion strictly on merit.
- Design opportunities in accordance with ability.
- Flexible salary reviews within grades.
- Permanency after probationary service.
- Recognition grants for outstanding work.

Starting salaries for Architects up to £1,500 according to quality and experience.

Whatever changes may result from the Royal Commission Report the enormous programme of work will have to be done and service now with the L.C.C. provides the best training ground for opportunities in the future.

And there is room for a few part-time architects.

Application forms and further particulars from Hubert Bennett, F.R.I.B.A., Architect to the Council, County Hall, S.E.1. quoting reference EK/927/4.



TOWN PLANNER
HOUSING AND PLANNING DEPARTMENT
GOVERNMENT OF BRITISH HONDURAS

Duties: To work in all fields of regional, city, small town and village planning; to prepare layouts for areas in new development, and to conduct detailed surveys of housing requirements and relate the results to planning proposals.

Qualifications: Candidates (men only, aged 30-45) must be A.M.T.P.I. (and preferably also A.R.I.B.A.) with at least four years' post qualification experience.

Terms of Appointment: On contract for two tours of 24-36 months. Salary £2,000 a year with 12½ per cent. gratuity. Free passages. Quarters provided at reasonable rent. Write to Director of Recruitment, Colonial Office, London, S.W.1, giving full names, age, qualifications and experience, quoting BCD 160/31/02/E2. 6918

CAMBRIDGESHIRE COUNTY COUNCIL
COUNTY PLANNING DEPARTMENT

Applications are invited for the appointment of SENIOR PLANNING ASSISTANT, A.P.T. V (£1,310—£1,480 p.a.). Candidates should be A.R.I.B.A. and should have passed the Intermediate or Final examinations of the Town Planning Institute. Experience in the control of development and in the layout and design of housing and redevelopment areas will be an advantage. Applicants must be able to drive a car.

Applications, stating age, past and present appointments, qualifications, experience and present salary, together with the names of two referees, should be sent to the County Planning Officer, Shire Hall, Castle Hill, Cambridge, not later than 30th April, 1961.

County Planning Department.
Shire Hall,
Castle Hill,
Cambridge.
4th April, 1961. 6836

COVENTRY

Applications are invited for the following architectural posts:—

CENTRAL AREA.
(a) SCALE "B" (£1,470—£1,670).
(b) A.P.T. V (£1,310—£1,480).
(c) A.P.T. I, II or III (£645—£1,140).

Central redevelopment works include multi-storey shops, flats, offices, car parks and central baths. The person appointed to post (a) must have outstanding design ability.

EDUCATION.
A.P.T. V (£1,310—£1,480).

To be a member of group working on an interesting variety of school building projects.

Housing accommodation in approved circumstances or 95 per cent. advance for house purchase. Removal expenses loan. Five-day working week.

Application forms from Department of Architecture and Planning, Council House, Earl Street, returnable 10 days publication. 6844

BOROUGH OF SCUNTHORPE
(Population—63,000; Area—7,895 acres; R.V.—£1,562,541)
ARCHITECTURAL AND PLANNING APPOINTMENTS

Applications are invited for the following appointments in the Borough Engineer and Surveyor's Department:—

(a) SENIOR ASSISTANT ARCHITECTS—Grade A.P.T. III/IV (£960—£1,310 p.a.).
(b) SENIOR PLANNING ASSISTANT (REDEVELOPMENT)—Grade A.P.T. III (£960—£1,140 p.a.).
(c) PLANNING ASSISTANT (DEVELOPMENT CONTROL)—Grade A.P.T. II/III (£815—£1,140 p.a.).

Commencing salaries will be fixed in the appropriate grade according to qualifications and experience.

Applicants for posts (a) should be qualified Architects and have a good experience of architectural practice and procedure but Local Government experience is not essential; for posts (b) and (c) previous experience in redevelopment and development control work respectively in an urban area is essential.

The population of the Borough continues to expand rapidly and an extensive programme of capital works is planned. Opportunity for valuable architectural and planning experience also exists in conjunction with a comprehensive Redevelopment Scheme now being prepared for the Central Area of the Borough.

Housing accommodation available, if required, approved removal expenses reimbursed in full, five-day working week.

Applications, stating age, details of present and past appointments, training, qualifications and experience, together with the names of two persons to whom reference may be made, should be sent to F. J. Bowyer, Esq., Borough Engineer and Surveyor, Borough Surveyor's Department, Laneham Street, Scunthorpe, on or before Friday, 28th April, 1961. 6863

BOROUGH OF EALING

ARCHITECTURAL ASSISTANT within scale A.P.T. IV, according to experience (£1,185—£1,355 inclusive). Must have recognised architectural qualifications.

JUNIOR ARCHITECTURAL ASSISTANT, A.P.T. I (£645—£815) plus London weighting.

Full particulars and forms of application from Borough Engineer, Town Hall, Ealing, W.5.

E. J. COPE BROWN,
Town Clerk.
7012

STEVENAGE DEVELOPMENT CORPORATION

Applications are invited for appointment as ASSISTANT ARCHITECT in the Chief Architect's Department on New Town's Salary Grade A.P.T. IV/V, £1,140—£1,480, starting salary according to qualifications and experience. Applicants should be Associates of the Royal Institute of British Architects and have experience in design and construction of modern buildings.

Living accommodation will be available in an appropriate case. Local Government superannuation; five-day week.

Applications giving details of experience and the names of two referees should be sent to the Chief Administrative Officer, Daneshill House, Danestrete, Stevenage, Herts, not later than 1st May, 1961. 6979

OXFORDSHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT

Applications are invited from qualified quantity surveyors for the post of CHIEF QUANTITY SURVEYOR, salary J.N.C. Scale "B" (£1,410—£1,670). This is a new appointment to take charge of and develop the quantity surveying section which is small at present.

The appointment is superannuable and subject to medical examination.

Application forms and further particulars to be obtained from the undersigned to be returned by the 8th May, 1961.

ALBERT E. SMITH,
County Architect.

Park End Street Offices,
Oxford. 6977

BOROUGH OF OLDBURY

Applications are invited for the following appointment on the staff of the Borough Surveyor's Department.

ARCHITECTURAL ASSISTANT, Salary A.P.T. Grade III (£960—£1,140).

Candidates should be well trained and experienced in the design and preparation of schemes and supervising contracts in connection with general housing including multi-storey flats, public buildings, school buildings, and minor improvements and maintenance works.

The appointment will be superannuable subject to the National Conditions of Service and to the selected candidates passing a medical examination.

Applications giving particulars of age, qualifications, experience, and the names of two referees, should be delivered to the undersigned not later than the 28th April, 1961.

KENNETH PEARCE,
Town Clerk.

Municipal Buildings,
Oldbury.
April 1961. 6941

CORPORATION OF LONDON
CITY PLANNING OFFICE

Two PLANNING ASSISTANTS in the following salary ranges: (A) £1,195—£1,480; (B) £1,055—£1,310, are required.

The City Planning Office has interesting planning projects on hand and others in active preparation: e.g. large scale development is now proceeding in Barbican commercial zone where separated pedestrian walkways are planned for a large area.

The vacancies exist in the Civic Design Section for qualified architectural or planning assistants to join small group working on the present important phase of rebuilding in the City. Opportunities for advancement should occur from time to time.

Local Act Superannuation.

Apply to the City Planning Officer, Guildhall, E.C.2. 6969

CORBY NEW TOWN
SENIOR ASSISTANT ARCHITECT

Applications are invited for an appointment of Senior Assistant Architect within the salary Grade A.P.T. VII (£1,415—£1,670 per annum).

The appointment is one of two Principal Assistants in the department of the Chief Architect and, therefore, administrative as well as architectural ability is required. The appointment offers exceptional experience in a rapidly developing new town.

Housing is available and removal expenses will be paid. There is an obligatory Superannuation Scheme either under Local Government conditions or under the New Towns' Pension Fund.

Fully detailed applications and the names of two referees are required by Monday, 1st May, 1961, addressed to the undersigned.

R. F. BROOKS GRUNDY,
General Manager.

Corby Development Corporation,
Spencer House,
Corby,
Northants. 6970

DEPTFORD BOROUGH COUNCIL invites applications for the following appointments:

(a) PRINCIPAL ASSISTANT ARCHITECT, A.P.T. Grade V (£1,310 to £1,480 per annum) plus London weighting of £45.
(b) ASSISTANT ARCHITECT, A.P.T. Grade III (£960 to £1,140 per annum) plus London weighting dependent on age of applicant.

Applicants must be suitably qualified, preferably with Local Government experience in the design of public buildings, and development of small housing sites.

The commencing salary will not necessarily be at the minimum of the scale.

Both appointments are superannuable and subject to N.J.C. Conditions. Five-day week and staff canteen. Applications naming two referees to Town Clerk, Deptford Town Hall, New Cross Road, S.E.14, by 6th May, 1961. 6996

COUNTY BOROUGH OF CROYDON
ARCHITECTURAL AND SURVEYING STAFF

Applications are invited for the following appointments under the School Architect (C. T. Ayerst, A.R.I.B.A.) for work on major and minor education building programmes:—

(a) SENIOR ASSISTANT SURVEYOR, A.P.T. V (£1,355 to £1,525 p.a.). Applicants must be A.R.I.C.S. (Building).
(b) ARCHITECTURAL ASSISTANT, A.P.T. I/II/III/IV (£670 to £1,355 p.a.).
(c) TRAINEES / JUNIOR ARCHITECTURAL ASSISTANTS / ARCHITECTURAL DRAUGHTSMEN, General Division to A.P.T. II (approximately £400 to £1,000 p.a.).

Commencing salaries will depend on qualifications and experience; pensionable posts; five-day week (38 hours).

"Essential User" car allowance is paid to officers graded in A.P.T. IV or above with Final qualification.

Housing. Advances up to 100 per cent. of Borough Valuer's valuation will be available in approved cases for the purchase of a suitable house in Croydon.

Further particulars and application forms from the School Architect, 38 High Street, Croydon, Surrey.

Closing date 8th May, 1961. 7007

COUNTY BOROUGH OF MIDDLESBROUGH

Applications are invited for the following appointments in the office of the Education Architect (K. J. Caton, A.R.I.B.A.). Middlesbrough has a large and continuing educational building programme offering scope in interesting projects. Appointments will be made within the grades indicated, subject to qualifications and experience.

(a) SENIOR ASSISTANT ARCHITECTS, A.P.T. V (£1,310—£1,480).
(b) ASSISTANT ARCHITECTS, A.P.T. III (£960—£1,140) and IV (£1,140—£1,310).
(c) ARCHITECTURAL ASSISTANTS, A.P.T. I (£645—£815) and II (£815—£960).
(d) DRAUGHTSMEN, Miscellaneous Grades III-IV (£555—£685).

Housing accommodation will be considered for married applicants for posts (a) and (b).

Application forms and particulars from the Director of Education, Education Offices, Woodlands Road, Middlesbrough, to whom completed forms should be returned as soon as possible. 7053

CITY OF LEEDS
CITY ARCHITECT'S DEPARTMENT

Applications are invited for the following appointments:—

(a) SENIOR ASSISTANT QUANTITY SURVEYOR, SO/A (£1,455—£1,565). Applicants should have wide experience in all aspects of a Quantity Surveyor's duties.
(b) SENIOR ASSISTANT QUANTITY SURVEYOR, A.P.T. III (£960—£1,140). Applicants should be experienced in the measurement of variations and the settlement of final accounts for large schemes and should have some experience of taking off.
(c) ASSISTANT QUANTITY SURVEYORS, A.P.T II (£815—£960). Applicants should have experience in the measurement of work in progress and in the settlement of final accounts.
(d) ASSISTANT QUANTITY SURVEYORS, A.P.T. I (£645—£815). Applicants should have experience of working up and measurement of work in progress.

Applicants should be suitably qualified.

The appointments are superannuable—medical examination.

Assistance will be given in providing housing accommodation in approved cases, if required.

Applications on forms to be obtained from the undersigned are to be returned not later than Monday, 8th May, 1961.

Canvassing disqualifies.

J. R. SHERIDAN-SHEDDEN,
City Architect.

Priestley House,
Quarry Hill,
Leeds, 9. 6988

COUNTY BOROUGH OF CROYDON
CLERK OF WORKS

Applications are invited from persons with suitable experience for appointment as Clerk of Works to supervise contracts in the school building programme. Salary £16 16s. 6d. per week.

Further particulars and application forms from the School Architect, 38, High Street, Croydon, Surrey.

Closing date 8th May, 1961. 7001

COUNTY BOROUGH OF ROCHDALE

Applications are invited for the following permanent appointments in the Borough Engineer and Surveyor's department:

(a) QUANTITY SURVEYOR, grade A.P.T. III/IV.
(b) ASSISTANT ARCHITECT, grade A.P.T. III/IV.
(c) HEATING AND VENTILATING ASSISTANT, grade A.P.T. III/IV.

The commencing salary will be in accordance with experience and qualifications.

Applications stating age, qualifications, present and previous appointments and experience, together with the names of two referees to Borough Engineer and Surveyor by 29th April.

Canvassing will disqualify, relationship to any member or senior official of the Council must be disclosed. Appointments subject to medical examination.

K. B. MOORE,
Town Clerk.

Town Hall,
Rochdale.
7th April, 1961. 6947

Mobil

Mobil Oil Company Limited invite applications for the following positions:

ASSISTANT ARCHITECT

(Required for the London Office)

Applicants must be either A.R.I.B.A. or Final Standard, have experience in contemporary design and be capable of working independently. They will be responsible for handling jobs through all stages of development. Must have a current Driving Licence. Five day week, three weeks' holiday after one year's service.

ARCHITECTURAL ASSISTANTS

(Required for the London and Manchester Offices)

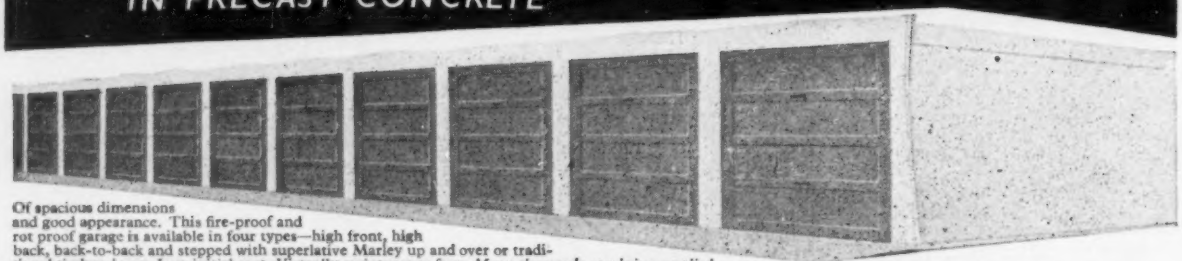
The posts offer opportunity for experienced draughtsmen to take responsibility for the design and supervision of small contracts and to gain experience in the surveying of new and existing sites. Salary in accordance with experience.

Luncheon Vouchers, Sickness Benefits, etc.

Write giving full details of age, experience and salary required to

Employment Adviser, Mobil Oil Company Limited, Caxton House, S.W.1

MARLEY MULTIPLE GARAGES IN PRECAST CONCRETE



Of spacious dimensions and good appearance. This fire-proof and rot proof garage is available in four types—high front, high back, back-to-back and stepped with superlative Marley up and over or traditional timber doors. Low initial cost. Virtually maintenance free. *Many thousands now being supplied and erected for Architects and Local Authorities throughout Great Britain.* Site work can also be undertaken, if required. We shall be pleased to submit quotations on request. Marley make the best garages.

MARLEY CONCRETE LIMITED Dept. M1/49 Peasmarsh, Guildford, Surrey (Head Office) Guildford 69171 · Shurdington, Nr. Cheltenham, Glos. Shurdington 334/5. Hatchpond Road, Waterloo, Poole, Dorset. Broadstone 911/2 London Showrooms: 251 Tottenham Court Road, W.1.

ESTD. S·W· 1898

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FABRICATORS IN STEEL

STAIRWAY HOUSE, COURTHILL ROAD, LEWISHAM LONDON S.E.13. 'PHONE: LEE GREEN 4334-9.

CITY OF BIRMINGHAM
CITY ARCHITECT'S DEPARTMENT

Opportunities are offered to enthusiastic and imaginative ARCHITECTS to take a responsible part in a large and interesting programme of work for the City of Birmingham.

The work in hand includes a large Exhibition building, multi-storey Office Blocks, and a new Central Library, as well as Schools, Colleges and Housing (including multi-storey flats), and many other important buildings.

Appointments within either A.P.T. V (£1,310—£1,480) or A.P.T. IV (£1,140—£1,310) for fully-qualified Architects.

Candidates who have passed Parts I and II of the Final R.I.B.A. Examination or hold equivalent qualifications will be eligible for A.P.T. IV (£1,140—£1,310) appointments.

Commencing salaries within the scales will be according to capabilities and experience.

Pension scheme. Five-day week. Medical examination.

Applications to the undersigned stating age, present position and salary, qualifications, experience and names of two referees.

A. G. SHEPPARD FIDLER,
City Architect.

Baskerville House,
Civic Centre,
Birmingham, 1. 7048

ADMINISTRATIVE COUNTY OF LEICESTER

(*a*) PRINCIPAL ASSISTANT ARCHITECT, £1,410—£1,566.

(*b*) CHIEF ASSISTANT ARCHITECTS, £1,310—£1,480.

(*c*) SENIOR ASSISTANT ARCHITECTS, £1,140—£1,310.

(*d*) ARCHITECTURAL ASSISTANT, £815—£1,140 (according to qualifications).

Candidates for (*a*) must be members of the R.I.B.A., have had sound experience and be capable of acting as Group Leaders on an extensive programme of education buildings. Candidates for (*b*) must be members of the R.I.B.A., have had considerable office experience and be capable of taking charge of contracts from inception to completion. For (*c*), should be members of the R.I.B.A., have had office experience and be capable of taking charge of small contracts. For (*d*), should have Intermediate or Final qualifications of the R.I.B.A. and be capable of executing working drawings. Lodging allowance and removal expenses may be paid to a married man. Apply on form obtainable from County Architect, 123 London Road, Leicester. 7039

BOROUGH OF WORTHING
APPOINTMENT OF
BOROUGH ARCHITECT

Applications are invited for the above appointment at a commencing salary of £2,250 per annum, rising by annual increments of £75 to a maximum of £2,625 per annum in accordance with the scales of salaries of the Joint Negotiating Committee for Chief Officers of Local Authorities.

Applicants, in addition to being qualified architects, should hold qualifications with regard to Town Planning and have had considerable practical experience in the design and erection of educational and other municipal buildings and the implementation of a town planning scheme.

The successful applicant will be the Chief Officer of the Corporation in charge of the architectural, town planning and buildings sections of the Corporation and be responsible for a direct labour force of approximately 130 men dealing with the maintenance and repair of all municipal buildings, viz., housing, schools and general municipal properties.

Applications stating age, qualifications and experience and giving the names and addresses of two referees should reach the undersigned not later than 8th May, 1961.

ERNEST G. TOWNSEND,
Town Clerk.

The Town Hall,
Worthing. 7038

BOROUGH OF ROYAL TUNBRIDGE WELLS
ARCHITECTURAL ASSISTANT

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT at a salary in accordance with Grade A.P.T. II (£765—£880 p.a.).

The applicants for the appointment should have had suitable training and must be good draughtsmen of R.I.B.A. Intermediate examination standard.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, the National Scheme of Conditions of Service and the passing of a medical examination.

Housing accommodation will be provided if requested.

Applications, giving details of experience and qualifications, together with the names and addresses of two persons to whom reference may be made, are to be submitted to the Borough Surveyor & Waterworks Engineer, not later than noon on Monday, 24 April, 1961.

M. J. H. GIRLING,
Town Clerk.

7040

HAMPSTEAD BOROUGH COUNCIL

Require in the Housing Architect's Department TWO QUALIFIED ASSISTANT ARCHITECTS for new development including multi-storey blocks of flats. Salary A.P.T. Grade IV (£1,140—£1,130 basic) plus £45 London Weighting. Group system of working. Advances for house purchase up to 100 per cent. of valuation will be considered in suitable cases. Applications with names of two referees to Town Clerk, Town Hall, N.W.3, by 5th May, 1961. 7056

DENBIGHSHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT,
WREXHAM

Applications are invited from ARCHITECTS, ENGINEERS AND QUANTITY SURVEYORS for interesting and varied work in the above Department:—

(*a*) Two ARCHITECTURAL ASSISTANTS, A.P.T. Grade II/III (Salary £815—£1,140 per annum).

(*b*) Two ARCHITECTURAL ASSISTANTS, A.P.T. Grade I/II (Salary £645—£960 per annum).

(*c*) HEATING ENGINEERING ASSISTANT, A.P.T. Grade III/IV (Salary £960—£1,310 per annum).

(*d*) ELECTRICAL ENGINEERING ASSISTANT, A.P.T. Grade III (Salary £960—£1,140 per annum).

(*e*) QUANTITY SURVEYING ASSISTANT, A.P.T. Grade III (Salary £960—£1,140 per annum).

(*f*) QUANTITY SURVEYING ASSISTANT, A.P.T. Grade II/III (Salary £815—£1,140 per annum).

Contribution made towards removal expenses of successful applicants and consideration given to the payment of subsistence allowances to married officers.

Application forms and further particulars obtainable from me. Completed forms to be returned by 29th April, 1961.

W. E. BUFTON,
Clerk to the County Council.

County Offices,
Ruthin. 7044

PANEL OF ARCHITECTS FOR ROAD
IMPROVEMENT SCHEMES

ARCHITECTS IN PRIVATE PRACTICE are invited by the LONDON COUNTY COUNCIL to apply for inclusion in a NEW PANEL from which architects will be selected to undertake alterations to buildings and property frontages necessitated by ROAD WIDENING AND IMPROVEMENT SCHEMES.

The work, which will be carried out in close association with the Council's Architect, Chief Engineer and Valuer, will comprise making surveys, preparation of drawings and estimates of cost of proposed alterations, preparation of complete contract particulars, supervision and management of contracts and final settlement of accounts.

The projects will vary in value between £10,000 and £50,000. Fees will be in accordance with the appropriate scale of the R.I.B.A.

Applications submitting details of previous experience in this type of work should be made on the official forms obtainable from the Clerk of the Council (Ref. CL/O), The County Hall, London, S.E.1, to whom they should be returned not later than May 12th, 1961. 6962

EAST ANGLIAN REGIONAL HOSPITAL
BOARD

Vacancies in ARCHITECTS' DEPARTMENTS, to assist in carrying out boards' expanding hospital building programme

ASSISTANT ARCHITECTS. Salary £905—£1,310. Qualification: Registered Architect by examination.

ARCHITECTURAL ASSISTANTS. Salary £625—£900. Qualification: Intermediate R.I.B.A. or exemption.

ARCHITECTURAL DRAUGHTSMEN. Salary £475—£685. Candidates should have had three years' experience in architectural drawing.

Commencing salaries may be fixed above minimum on account of experience.

The work offers excellent opportunity for gaining experience in whole field of hospital architecture, ranging from adaptation schemes to new major development projects, including all types of medical ancillary departments and domestic buildings.

Applications stating age, qualifications, experience and details of present position with names of three referees to Secretary of Board, 117 Chesterton Road, Cambridge, by 8th May, 1961. 7037

SOUTH WEST METROPOLITAN REGIONAL
HOSPITAL BOARD
REGIONAL ARCHITECT'S DEPARTMENT
APPOINTMENT OF
ASSISTANT QUANTITY SURVEYOR

Applications are invited from Quantity Surveyors holding Corporate Membership of the Royal Institution of Chartered Surveyors (Quantities Division) for the above-mentioned post. The salary is on the scale £935 p.a. rising to £1,360, and the starting point will depend on the successful applicant's previous practical experience.

Applications giving full details of age, experience, previous and present positions, together with the names and addresses of two referees should be sent to the undersigned by not later than 3rd May.

E. G. BRAITHWAITE,
Secretary.

7035

COUNTY BOROUGH OF BOURNEMOUTH
BOROUGH ARCHITECT'S DEPARTMENT

Applications are invited for the appointment of SENIOR ASSISTANT ARCHITECT. Salary Grade A.P.T. IV, £1,140/£1,310 p.a., but the successful candidate will be appointed at present salary if within the incremental scale.

Candidates must be fully qualified (by examination) members of the R.I.B.A.

Application forms and further particulars from Borough Architect, Town Hall, Bournemouth. Completed applications to reach the undersigned by 10 a.m., 6th May, 1961.

A. LINDSAY CLEGG,
Town Clerk.

7026

HORNCHURCH URBAN DISTRICT COUNCIL
(ARCHITECT'S DEPARTMENT)
APPOINTMENT OF
PRINCIPAL ASSISTANT ARCHITECT
GRADE A.P.T. V
(Salary £1,310—£1,480 p.a. plus equivalent to London weighting)

The Principal Assistant Architect would be responsible to the Deputy Architect for the detailed work and organisation of the Department. The revised establishment, under the Council's Architect, Mr. D. Pearcy, F.R.I.B.A., includes a Deputy Architect, Principal Assistant Architect, 8 Architectural Assistants of various grades, 2 Architectural Pupils, a Technical Assistant for modernisation and improvement works, and 4 Clerks of Works.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, the N.J.C. Scheme of Conditions of Service and one month's notice on either side. The person appointed will be required to pass a medical examination.

Candidates must be registered Architects or Associates of the Royal Institute of British Architects. They should have considerable experience in the design of public buildings of all classes, in the handling of contracts and technical administration.

The Council's housing policy permits advances of up to 100 per cent. of the Surveyor's valuation to be granted to members of the staff, or alternatively, consideration may be given to the provision of housing accommodation.

In approved cases, the Council normally pay half the cost of removal expenses, subject to the person appointed undertaking to remain in the Council's service for a period of at least two years.

Essential car user allowance has been approved for this appointment.

Completed forms of application, with details of experience and qualifications, to be returned to the Clerk of the Council by noon on Monday, 8th May, 1961.

P. L. COX,
Clerk of the Council.

Council Offices,
Billet Lane,
Hornchurch. 7036

BOROUGH OF LUTON

Applications are invited for the following appointments:—

(*a*) SENIOR ASSISTANT ARCHITECTS, A.P.T. V (£1,310—£1,480).

(*b*) ASSISTANT ARCHITECTS, A.P.T. IV (£1,140—£1,310).

(*c*) ARCHITECTURAL ASSISTANT, A.P.T. III (£960—£1,140).

(*d*) QUANTITY SURVEYING ASSISTANT, A.P.T. III (£960—£1,140).

Applicants for (*a*) and (*b*) must be Chartered Architects and the commencing salaries will be dependent on qualifications and experience.

Under (*c*) and (*d*) the Council will consider applications from candidates who have completed professional training but have not passed their Final examinations. The salaries at which appointments will be made will depend on qualifications and experience.

Consideration will be given to the provision of housing accommodation and payment of reasonable removal expenses for all appointments.

Luton is a rapidly developing borough with a large and varied programme of capital works in hand or projected which offers exceptional opportunities of gaining experience.

Forms of application may be obtained from the Borough Architect, Town Hall, Luton, by whom applications should be received not later than 29th April, 1961. 6959

SOUTH-WEST ESSEX TECHNICAL COLLEGE
AND SCHOOL OF ART
Forest Road, Walthamstow, E.17.

ASSISTANT Grade B required as soon as possible to teach second and third year full-time and part-time day students in the School of Architecture. The School is acknowledged by the Board of Architectural Education of the Royal Institute of British Architects, for Architectural training.

Salary within scale £700—£1,150 per annum, plus London Allowance of £38 or £51 per annum. Additions to scale for approved training and graduate qualifications if in accordance with the Burnham Further Education Report, 1959. In fixing the commencing salary increments above the scale minimum will be allowed in respect of war/national service and relevant industrial experience.

Apply by letter only (no forms) giving details of qualifications, training and experience, together with three recent testimonials or the names and addresses of three referees to the Clerk to the Governors. 6972

SHIPLEY URBAN DISTRICT COUNCIL
APPOINTMENT OF
ARCHITECTURAL ASSISTANTS

Applications are invited from appropriately qualified persons for the above appointments within A.P.T. Grades II/IV (£815—£1,310), commencing salary according to experience and qualifications. The posts are superannuable and housing accommodation will be provided if required.

Applications giving age, details of training, qualifications and experience, with the names and addresses of two referees, to be sent to the Surveyor, Town Hall, Shipley, Yorkshire, by Friday, 5th May, 1961.

ERNEST PEARS,
Clerk and Solicitor.

6981

Eight new books on ARCHITECTURE

MY WORK by Le CORBUSIER

Written, designed and supervised by Le Corbusier, this book surveys the great architect's development from his early days to the completion of his latest building. Drawings, used to amplify Le Corbusier's ideas when working, are here used to reinforce his explanatory text. He explains and illustrates the principles governing his work, and his contention that architecture must be integrated with other art forms is reinforced by a wide selection of photographs of great buildings, paintings and sculptures.
Size 11¼ × 8¾ ins. 328 pages. Illustrated throughout. 84*s.* net, postage 2*s.* 3*d.*

New Japanese Architecture

UDO KULTERMANN

Western opinion seems to have built up an image of modern Japanese architecture as something spare, elegant and informal. Dr Kultermann's book shows how different the work of leading Japanese architects has turned out to be. It is an architecture that is not afraid of mass and solidity; not afraid to exploit the gross material qualities of wood, stone and concrete; not afraid of bold plastic forms; not afraid to mate advanced technology with hallowed traditionalism. All these qualities are brought out in dramatic photographs, backed by analytical texts and biographies of some two dozen leading architects.
Size 11¼ × 8¾ ins. 212 pages. 180 half-tone illustrations. 63*s.* net.

Theory and Design in the First Machine Age

REYNER BANHAM

In the first thirty years of this century, architects made a tremendous effort to adapt their art, and to create a new climate of ideas. Dr Banham's subject covers theoretical writings, buildings, projects, industrial designs, paintings and sculptures. He shows how one unifying theme finally emerges: the architecture of the International Style. Into its growth went many designs, which the author illustrates and analyses; many publications, from the scholarly to the scandalous, from which he quotes extensively, showing the relationship between theories, theorists and products.
Size 9 × 5¾ ins. 340 pages, over 150 half-tone and line illustrations. 45*s.* net, postage 1*s.* 9*d.*

Design and Detail of the Space between Buildings

ELISABETH BEAZLEY

Few good examples of paving, walling and fencing are being built to-day. One reason for their rarity may be that the available information on materials and details is now widely scattered, and much time is wasted in long searches. This handbook sets out to collect all information from all sources, to assess the character, availability and wearing qualities of materials, the relative merits of constructional methods, and to help the planner avoid incongruities of detail.
Size 10 × 7½ ins. 230 pages. 130 half-tone and 85 line illustrations. 42*s.* net.

Antoni Gaudi

JOSEP LLUIS SERT & JAMES J. SWEENEY

For too long the great Spanish architect Antoni Gaudi has been regarded merely as an eccentric, and the significance of his contribution to architecture has been misunderstood. The authors trace Gaudi's life and work from his days as a student to his death in 1926. The picture emerges of a wholly sincere architect-builder who lived only for his work; we are reminded of Gaudi's constant reference to nature, his preoccupation with structural principles, his habit of making models which showed him what stresses his buildings would have to bear. Photographs, some in colour, and detail drawings, show how richly Gaudi's work deserves attention.
Size 11¼ × 8¾ ins. 184 pages. 184 half-tone illustrations, 13 in full colour. 73*s.* 6*d.* net.

The Landscape of Roads

SYLVIA CROWE

In the next three years £230 million will be spent on British roads. This book clearly and forcefully demonstrates the disastrous effect on the landscape when roads are treated purely as an engineering problem. Text, drawings and photographs together show how the skills of a combined team of experts can produce roads which fit the landscape, are far pleasanter to use and do not necessarily cost any more to build.
Size 9 × 5¾ ins. 70 half-tone illustrations, 18 drawings. 18*s.* 6*d.* net, postage 1*s.*

Lettering on Buildings

NICOLETE GRAY

This is the first book to deal with lettering as applied to all kinds of buildings. The author is an internationally acknowledged authority. She first examines and illustrates the history and development of letter forms and then outlines a new way of looking at problems and possibilities. Her approach is illustrated by many examples of lettering *in situ*; and she thus demonstrates how present-day architects and designers can tackle the task of integrating lettering with all kinds of buildings.
Size 9 × 5¾ ins. 192 pages with 270 half-tone and line illustrations, 25*s.* net, postage 1*s.* 2*d.*

Architects' Working Details Volume VII

EDITORS: D.A.C.A. BOYNE & LANCE WRIGHT, A.R.I.B.A.

This seventh volume returns to English examples. The series aims firstly to provide architects and students with easily accessible solutions to everyday design problems, and secondly to record the latest stages reached in the study of these problems, thus providing a starting point from which architects can develop their own improvements. Each detail is illustrated by a large photograph facing the relevant working drawing.
Size 12 × 8¾ ins. 160 pages. 148 half-tone and line illustrations. 25*s.* net, postage 1*s.* 9*d.*

The Architectural Press, 9-13 Queen Anne's Gate, London S.W.1

CORBY NEW TOWN
ASSISTANT ARCHITECTS

There are two vacancies for Assistant Architects within the department of the Chief Architect at a salary within the Grade A.P.T. IV (£1,140—£1,310 per annum). The appointment offers exceptional experience and intensive development work will continue for many years.

Housing is available and removal expenses are paid. There is an obligatory Superannuation Scheme either under the conditions of the Local Government Superannuation Act or under the New Towns' Pension Fund.

Apply before Monday, 1st May, 1961, stating age, present appointment and salary, details of qualifications and experience and the names of two referees, to:—

R. F. BROOKS GRUNDY,
General Manager.

Corby Development Corporation,
Spencer House,
Corby,
Northants. 6971

CITY OF BIRMINGHAM
HOUSING MANAGEMENT DEPARTMENT
APPOINTMENT OF DEPOT MANAGER
Grade A.P.T. IV—£1,140 to £1,310.

Applications are invited for the above position at one of the five Depots dealing with the maintenance of municipal houses. Applicants must have had a wide practical knowledge of building maintenance work and have administrative ability to control building labour and materials. Experience of central heating and boiler plants, together with lift installations advantageous.

Pension scheme, including widows and orphans. Medical examination. Canvassing disqualifies.

Particulars from the undersigned. Applications to be received by Wednesday, the 26th April, 1961.

J. P. MACEY,
Housing Manager.

Housing Management Department,
Bush House,
Broad Street,
Birmingham, 1. 6943

NORTH EAST METROPOLITAN REGIONAL HOSPITAL BOARD
40, Eastbourne Terrace, London, W.2.
W. G. PLANT, Dip.Arch. (L'pool), F.R.I.B.A., Regional Architect.

SENIOR ASSISTANT ARCHITECTS required for the Board's expanding Architectural Department in London

The Board is undertaking a considerable programme of Hospital Building offering scope for research, imaginative design and progressive thinking, and excellent opportunities for gaining experience in a wide, varied and interesting field of Architecture. Major schemes on which the Board's Staff are at present engaged include:

NEW HOSPITAL AT BASILDON.
COMPLETE REDEVELOPMENT OF ORSETT HOSPITAL
MAJOR DEVELOPMENT OF BARKING HOSPITAL.
MAJOR DEVELOPMENT OF SOUTHEND GENERAL HOSPITAL.
MAJOR DEVELOPMENTS AT NORTH MIDDLESEX HOSPITAL.

Salary commencing at £1,350 rising to £1,650 a year, inclusive.

Applicants must be Registered Architects having passed the requisite examinations. Those appointed will either be allocated jobs of their own and be responsible, under very limited supervision, for the schemes from sketch design to completion of contract, or will work, as members of teams, on the larger projects and share in the work of research, design and detailed drawings.

Previous hospital experience is not essential.

Leave—20 days rising to 23 after 10 years.

Posts permanent and pensionable. Five-day week.

Mileage allowance paid for use of car on business.

Applications giving age, details of education, professional training, qualifications, experience and past and present appointments, present salary and other relevant details, together with the names and addresses of two referees, should be sent to The Secretary, North East Metropolitan Regional Hospital Board, 40 Eastbourne Terrace, London, W.2, within 14 days. 6966

EAST LOTHIAN COUNTY COUNCIL
PLANNING ASSISTANT

Applications invited for post of Planning Assistant. Duties mainly on review of development plans and redevelopment schemes for small towns. Salary £850 to £1,150 with appropriate placing if passed Final examination of Town Planning Institute. Superannuation. Applications with details of qualifications, etc., and names of two referees to County Clerk, County Buildings, Haddington, by 15th May, 1961. 6968

ROYAL BOROUGH OF KINGSTON-UPON-THAMES
APPOINTMENT OF ARCHITECTURAL ASSISTANT
(A.P.T. Grade II: £815—£960 per annum plus London weighting)

Applications are invited for the above-mentioned appointment. Details and application forms obtainable from Borough Surveyor, Guildhall, Kingston-upon-Thames, and returnable by 5th May, 1961.

L. V. POWELL,
Town Clerk.

Guildhall,
Kingston-upon-Thames.
12th April, 1961. 7049

NORTH EAST METROPOLITAN REGIONAL HOSPITAL BOARD
40, Eastbourne Terrace, W.2.
W. G. PLANT, Dip.Arch. (L'pool), F.R.I.B.A., Regional Architect.
HOSPITAL BUILDING PROGRAMME
APPOINTMENT OF SENIOR ASSISTANT QUANTITY SURVEYORS

The Board is substantially increasing its staff to deal with rapidly increasing Hospital Building Programmes, and Quantity Surveyors are invited to apply for the under-mentioned posts, which offer exceptional opportunities of gaining experience in a wide, varied and interesting field. Posts are pensionable, with good prospects of promotion. Five-day week. Leave 20 days rising to 23 days.

SENIOR ASSISTANT QUANTITY SURVEYORS
Salary commencing at £1,350 rising to £1,650 a year inclusive. Applicants should be Corporate Members of the Royal Institution of Chartered Surveyors (Sub. Div. III Quantities) (or in certain circumstances Associates of the Institution of Quantity Surveyors).

Applications, giving age, details of education, professional training, qualifications, experience, and past and present appointments, present salary and other relevant details, together with the names and addresses of two referees, should be sent to The Secretary, North East Metropolitan Regional Hospital Board, 40 Eastbourne Terrace, London, W.2, within 14 days. 6967

OXFORDSHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT

1. ASSISTANT ARCHITECTS, A.P.T. V (£1,310—£1,480) (starting salary according to experience).
2. ASSISTANT ARCHITECTS, A.P.T. IV (£1,140—£1,310) (starting salary according to experience).

Applications are invited from Qualified Architects to work on an interesting and varied building programme.

The appointments are superannuable and subject to medical examination.

Applications on forms to be obtained from the undersigned to be returned by the 8th May, 1961.

ALBERT E. SMITH,
County Architect.

Park End Street Offices,
Oxford. 6975

SURREY COUNTY COUNCIL

Applications invited for appointment of ASSISTANT ARCHITECTS on Grade V (£1,310—£1,480 p.a. plus £45 p.a. London Allowance). Must be A.R.I.B.A and capable of leading a small team dealing with medium and large-scale contracts.

Candidates will be appointed at the appropriate point within the scale according to age and ability.

Approved removal expenses will be paid to successful candidates.

Full details, present salary and three copy testimonials, preferably one from present employer, to County Architect, County Hall, Kingston, as soon as possible. 7064

LANCASHIRE COUNTY COUNCIL
ARCHITECTURAL ASSISTANTS required at PRESTON, A.P.T. Grade IV, salary £1,140—£1,310 per annum

Applicants must be qualified architects and have had experience in a planning office preferably on the preparation of Comprehensive Development Area schemes for central area redevelopment.

An allowance up to £125 may be granted towards removal expenses in approved cases.

Applications giving age, qualifications, present appointment, experience, etc., and two referees to the County Planning Officer (S), East Cliff County Offices, Preston, by the 2nd May, 1961. 7062

SURREY COUNTY COUNCIL

Applications invited for following appointments:—

1. Salary range £960—£1,310 p.a. plus £45 p.a. London Allowance. Successful candidates will be paid according to age and experience and will receive approved removal expenses. Applicants should state salary they expect to receive.

ARCHITECTS. Must be A.R.I.B.A. and have had experience in preparation of drawings and specifications, and be capable of assuming responsibility for medium to large-scale contracts.

2. GRADE II (£815—£960 p.a. plus up to £40 p.a. London Allowance).

ARCHITECTURAL ASSISTANTS. Must be of good general training, preference given those who have passed Inter. R.I.B.A.

Candidates will be appointed at the appropriate point within the scale according to age and ability.

Full details, present salary and three copy testimonials, preferably one from present employer, to County Architect, County Hall, Kingston, as soon as possible. 7063

FLINTSHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT

Applications are invited for the post of CHIEF ASSISTANT ARCHITECT within Grade A.P.T. V (£1,310—£1,480), plus an allowance as an essential car user. Candidates must be Associates of the R.I.B.A. with a minimum of four years' practical experience in the design of public buildings of all classes, and in the handling of contracts and technical administration. Further particulars and form of application obtainable from the Clerk of the County Council, County Buildings (P.O. Box No. 1), Mold. Closing date 8th May, 1961. 7047

CITY AND COUNTY OF NEWCASTLE UPON TYNE
CITY PLANNING DEPARTMENT

In November last year a new City Planning Department was created with a skeleton staff. The posts to complete the full establishment have now been authorised. This new department offers opportunities to Town Planners who wish to make a contribution to modern planning and redevelopment. A complete review of all aspects of the City Plan is being undertaken and large scale redevelopment schemes are now being worked out. The department is organised under the City Planning Officer into five divisions, Planning Policy, Redevelopment, Development Control, Traffic, Administration.

Applications are invited from suitably qualified candidates for the following posts:—

(1) CENTRAL AREA OFFICER: Grade B (£1,410 £1,670 p.a.) Directly responsible to the Redevelopment Officer for the detailed design of multi-level precincts. Architectural qualification essential.
(2) ASSISTANT DEVELOPMENT CONTROL OFFICER: Grade B (£1,410—£1,670 p.a.). Directly responsible to and deputy to Development Control Officer. An Architectural qualification in addition would be an advantage as the duties will include many aspects of civic design and improvement.
(3) SENIOR ADMINISTRATIVE OFFICER: A.P.T. III (£960—£1,140 pa.). Directly responsible to the Chief Administrative Officer. Local Government Administrative experience essential.
(4) ASSISTANT PLANNING OFFICERS: A.P.T. III/IV (£960—£1,310 p.a.). Vacancies in Planning Policy and Redevelopment divisions.
(5) PLANNING ASSISTANTS: A.P.T. I (£645—£815 p.a.). Vacancies in Planning Policy, Redevelopment and Development Control divisions. Planning Assistants will be given opportunities for training and experience in all divisions of the department.
(6) MODEL MAKER: Misc. Grade V (£685—£760 p.a.). Preferably with experience in the construction of architectural and town planning models and familiar with model constructional techniques and materials.

The appointments are subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, and the passing of a medical examination.

Applications stating age, qualifications, experience, present and past appointments and salaries, together with the names of two referees to reach Mr. Wilfred Burns, City Planning Officer, 2, St. Nicholas Buildings, Newcastle upon Tyne 1, by Monday, 8th May, 1961.

John Atkinson,
Town Clerk.

Town Hall,
Newcastle upon Tyne. 7061

CITY OF LEEDS
CITY ARCHITECT'S DEPARTMENT

Applications are invited for the following appointments:—

(1) ASSISTANT PRINCIPAL ARCHITECT, SO/B (£1,505—£1,670). The successful applicant will be employed in the Education and General Section and will be responsible for the design and supervision of large projects of an interesting and varied nature.
(2) SENIOR ASSISTANT ARCHITECTS, A.P.T. V (£1,310—£1,480).
(3) SENIOR ASSISTANT ARCHITECTS, A.P.T. IV (£1,140—£1,310).
(4) ASSISTANT ARCHITECTS, A.P.T. III (£960—£1,140).
(5) ARCHITECTURAL ASSISTANTS, A.P.T. II (£815—£960).
(6) ARCHITECTURAL ASSISTANTS, A.P.T. I (£645—£815).

Applicants should have had a wide experience in either housing, education and other types of large public building work and will be required to design and work on these projects to completion.

Applicants will be considered on their capability for design, experience, and contemporary outlook.

Applicants should be suitably qualified.

The appointments are superannuable—Medical Examination.

Assistance will be given in providing housing accommodation in approved cases, if required.

Applications on forms to be obtained from the undersigned are to be returned not later than Monday, the 8th May, 1961.

Canvassing disqualifies.

J. R. SHERIDAN-SHEDDEN,
City Architect.

Priestley House,
Quarry Hill,
Leeds, 9. 7067

ARCHITECTS AND MAINTENANCE SURVEYORS. Pensionable posts for men and women at least 25 and under 35 on 1st January, 1961 (extension for regular Forces service, Overseas Civil Service, established Civil Service and temporary Government service as Architect or Maintenance Surveyor). Candidates must be registered Architects or, alternatively, for Maintenance Surveyor posts, have achieved Corporate Membership of R.I.C.S. (Building Section), or have passed examinations necessary for attaining Corporate Membership. National salary £935—£1,258 according to age, rising to £1,430. Promotion prospects. Write Civil Service Commission, 17 North Audley Street, London, W.1, for application form quoting S/60-61. 7027

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE
OFFICE OF THE COUNTY ARCHITECT

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT at the Doncaster Divisional Office at Adwick-le-Street.

Salary range A.P.T. III, £960—£1,140.

Applicants should possess a sound knowledge of building construction and be capable of dealing with maintenance works and adaptations to buildings of various types. Five-day week operated.

Applications to be submitted by the first post on Tuesday, 2nd May, 1961, on forms to be obtained from and returned to the undersigned.

A. W. GLOVER, F.R.I.B.A.,
County Architect.

Bishopgarth,
Westfield Road,
Wakefield. 7017

BOROUGH OF ENFIELD
BOROUGH ENGINEER & SURVEYOR'S DEPARTMENT

(Non-County Borough in the County of Middlesex. Population 109,700; Area 12,400 acres)

Applications are invited, from suitably qualified persons, for the posts of ARCHITECTURAL ASSISTANTS, Grade A.P.T. III (£960—£1,140 per annum, plus appropriate London weighting).

The commencing salary will be fixed at a point within the scale commensurate with qualifications and experience.

The successful applicants will be engaged, inter alia, on the design of multi-storey point blocks of flats, the re-development of clearance areas, and public buildings.

Housing accommodation may be made available in appropriate cases. The Council is also prepared to consider 100 per cent. advance, to the successful candidate, for house purchase within the Borough.

Saturday mornings are normally free from duty.

Application forms, obtainable from H. D. Peake, M.Sc. (Eng.), Borough Engineer & Surveyor, 7 Little Park Gardens, Enfield, Middx., must be delivered to the undersigned as soon as possible.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Civic Centre,
Enfield, Middx. 7018

NORTH WEST METROPOLITAN REGIONAL HOSPITAL BOARD
ARCHITECT'S DEPARTMENT

ASSISTANT BUILDING SURVEYOR required for work in connection with expanding hospital building programme. A surveyor having good all-round previous experience is required to assist in the management of major building contracts and whose main duties will be the preparation of enquiries in respect of specialised work connected with such contracts.

Applicants must be corporate members of the R.I.C.S. (Building Subdivision) and should have passed the Intermediate examination of the R.I.C.S. Salary scale £945—£1,360.

Apply, stating age, qualifications (with dates) and experience, with names of two referees, to the Secretary, North West Metropolitan Regional Hospital Board, 40 Eastbourne Terrace, W.2, by 28th April, 1961, quoting ref. 917. 7019

BOROUGH OF ACTON
BOROUGH ENGINEER'S DEPARTMENT

Applications are invited for the following appointments in connection with the Council's programme of redevelopment and new works:—

SENIOR ENGINEERING ASSISTANT, A.P.T. Grade V.

ARCHITECTURAL ASSISTANT, A.P.T. Grade II/III/IV.

Candidates should have general experience of municipal works especially with reference to re-development, structural design and multi-storey housing development. Appointments on A.P.T. Grades IV and V are subject to possession of the appropriate qualifications. Starting salaries according to age, qualifications and experience. London Allowance (maximum £45 p.a.) is payable in addition. Five-day week.

To assist successful applicants to obtain housing accommodation the Council will make mortgage advances up to 100 per cent.

Conditions of appointment and forms of application may be obtained from and should be returned to the Borough Engineer, Town Hall, Acton, W.3, by 8th May, 1961. 7020

COUNTY BOROUGH OF WOLVERHAMPTON
APPOINTMENT OF PRINCIPAL PLANNING ASSISTANT

Applications are invited for the above appointment in the department of the Borough Engineer and Planning Officer. Salary within A.P.T. Grade IV—V (£1,140—£1,480 per annum), according to qualifications and planning experience.

Housing accommodation will be provided in suitable cases.

Further particulars may be obtained from the Borough Engineer and Planning Officer, Town Hall, Wolverhampton, to whom applications should be submitted by 1st May, 1961. 7041

ARCHITECTS required by the National Coal Board in Edinburgh. Salary within the scale £900 to £1,250 per annum. Applicants must be Associate Members of the R.I.B.A. (or, if not yet qualified, may be appointed in the first place as Architectural Assistants in a salary scale £655 to £935, or if exceptionally experienced to £1,100). Applications, stating age, education, qualifications, experience, present post and salary, to Staff Department, National Coal Board, 3 Eglinton Crescent, Edinburgh, 12. 7071

AIR MINISTRY requires QUANTITY SURVEYING ASSISTANTS, Grade III, at R.A.F. and Ministry of Aviation stations throughout the United Kingdom. The work includes abstracting and billing, site measurement and preparation of estimates.

Salary, which is dependent upon age, qualifications and experience, ranges from £726 (age 23) to £961 maximum in Grade III. There are pension prospects and also opportunities of advancement to numerous posts in the higher grades, viz:

Technical Grade II:	£961—£1,098	123 posts
Technical Grade I:	£1,098—£1,348	42 posts
Technical Grade B:	£1,348—£1,552	6 posts
Technical Grade A:	£1,439—£1,697	6 posts

Vacancies occurring in the higher grades are, as a rule, filled by promotion of existing staff.

Overseas tours for which special allowances ranging at present up to £1,800 p.a. are payable in addition to a higher salary. Financial assistance and time off allowed for recognised courses of study leading to higher qualifications. Five-day week with 18 days paid leave a year initially.

Applicants who must be natural born British subjects, must hold O.N.C. (Building or Builders Quantities) or equivalent and have had good experience under Quantity Surveyor or Building Contractor. Knowledge of W.D. Schedule an advantage. Forms from Manager (P.E.2), Ministry of Labour, Professional and Executive Register, Atlantic House, Farringdon Street, London, E.C.4. Candidates selected will be interviewed in Air Ministry, London, and certain expenses reimbursed. Only applicants selected for interview will be advised. 7028

CITY AND COUNTY OF NORWICH
CITY ARCHITECT'S DEPARTMENT

ASSISTANT ARCHITECT required on permanent staff; salary to be fixed in accordance with experience, within A.P.T. III/IV (£960—£1,310).

Application forms obtainable from the City Architect, City Hall, Norwich, must be returned by 5 p.m., Monday, 1st May, 1961. 7016

BOROUGH OF SWINTON & PENDLEBURY
ARCHITECTURAL ASSISTANT

Applications are invited for this position within A.P.T. Division Grade III, the commencing salary being determined by qualifications and experience. The work will be mainly in connection with housing development. Form of application obtainable from Borough Engineer, Town Hall, Swinton, Lancs., must be returned by 8th May, 1961. 6964

Tenders Invited

36s. per inch; each additional line 3s.

CRAWLEY URBAN DISTRICT COUNCIL
COUNCIL OFFICES AND COUNCIL SUITE

CONTRACTORS who wish to be considered for inclusion in a selected list of tenderers for the erection of Council Offices (including Council Suite) at The Boulevard, Crawley, are asked to send their names to me not later than the 3rd. day of May, 1961.

The Architects for the scheme are Sir John Brown, A. E. Henson and Partners.

Tendering documents will be sent to contractors selected by the Council from the applicants, and the Council may add other contractors to the selected list.

R. W. J. TRIDGELL,
Clerk of the Council.

Robinson House,
Robinson Road,
Crawley, Sussex.
6th April, 1961. 6914

Competition

36s. per inch; each additional line 3s.

HOUSE DESIGN COMPETITION

AN Open Competition for four types of house design is to be sponsored by the Gas Council.

Conditions will be available at the end of April, designs to be in by 31st August, 1961.

Designers will be called on for the minimum amount of work in presenting their ideas, so that effort may be concentrated on solving design problems in new ways, offering exciting new possibilities for living in modern Society.

Assessor: Mr. George Grenfell Baines, O.B.E., F.R.I.B.A., M.T.P.I.

The Competition will be open to Architects, and Students R.I.B.A. if in association with a Registered Architect.

Applications for Conditions:
Secretary,
House Design Competition,
The Gas Council,
1, Grosvenor Place,
London, S.W.1. 6766

Architectural Appointments Vacant

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

RONALD WARD AND PARTNERS invite applications from ARCHITECTS, Senior and Junior. Long-term prospects. Scope for initiative and responsibility in interesting commercial, industrial and civic projects in British Isles, West Africa and Australia. Salaries commensurate with ability. Non-contributory Pension and Life Insurance schemes. Five-day week. Pleasant offices. Apply 29, Chesham Place, Belgrave Square, London, S.W.1. Tel.: BELgravia 5361. 2960

£950-£1,500. ARCHITECTURAL ASSISTANTS with imagination and designing ability required to assist with large and important new developments in the central London Area. Telephone or write: Trehearne & Norman, Preston & Partners, 83, Kingsway, W.C.2. HOLborn 4071. 4934

EXPERIENCED and confident ARCHITECTS required to fill positions of responsibility in a growing and varied practice with industrial and commercial work throughout the southern half of the country. Applicants must have initiative as well as architectural ability to carry through contracts up to £100,000, working directly with Principals but with minimum supervision. Apply in writing to Thomas Mitchell & Partners, 30, Bedford Square, London, W.C.1. 5418

TWO SENIOR ASSISTANTS required. Salary in accordance with experience. Please apply to F. G. Frizzell, A.R.I.B.A., 80, Portland Place, W.1. LANgham 1732. 4943

ARCHITECTURAL ASSISTANTS required with practical experience. Varied practice including contemporary work. Salary £700—£1,100 (plus L.V.s), according to qualifications and experience. Please write, giving full particulars, to Sir Giles Scott, Son & Partner, 9, Gray's Inn Square, W.C.1. 5601

PLAYNE & LACEY require experienced and enthusiastic SENIOR ARCHITECTURAL ASSISTANT for work on University project. Salary range £1,200 to £1,500. Write 19, Queen Anne's Gate, Westminster, S.W.1, or ring WHI 2552 for interview. 5617

ARCHITECTURAL ASSISTANTS required in busy Bloomsbury office with varied practice. Good salary and prospects for suitable applicants. Five-day week. Write giving particulars of age, qualifications, experience, etc., to Box 918, c/o 7, Coptic Street, W.C.1. 5647

OPPORTUNITY for Intermediate or newly-qualified ASSISTANT with initiative and all-round ability, to join youthful expanding practice in Croydon. Apply to Donald Rowswell & Partners, 11/11a, George Street, Croydon, or telephone CROydon 4080. 5723

SENIOR ASSISTANTS required for work on large Hospital programme, excellent opportunities for the right men, salary £1,000—£1,400. Luncheon Vouchers and five-day week. Write giving full particulars to W. H. Watkins, Gray and Partners, 57, Catherine Place, S.W.1. 5633

ARCHITECT required in Oxford Office to work on hospital programme. Five-day week. Write giving full particulars to W. H. Watkins, Gray & Partners, c/o Churchill Hospital, Headington, Oxford. 5964

ARCHITECTURAL ASSISTANTS required for interesting work, including schools and hospitals, in Croydon office. Commencing salaries offered: £900—£1,150 for Associates, £600—£850 for students, according to age and experience. Five-day week and annual bonus. Write to George Lowe & Partner, 79, George Street, Croydon. 5197

ARCHITECTURAL ASSISTANTS of all grades, particularly Intermediate standard, required on varied and interesting projects. High salaries will be paid in accordance with skill or experience of applicant. Lewis Solomon, Kaye & Partners, City 8811. 5970

ERNO GOLDFINGER requires several qualified ASSISTANTS with at least 2 years' experience to take part in a growing programme of interesting work which includes large office buildings, central developments, Local Authority housing, schools and private houses. Good salaries and scope for men with sound knowledge of construction. 'Phone HYDe Park 5657. 5084

SENIOR and INTERMEDIATE ASSISTANTS required, qualified or unqualified, provided application backed by good general office experience. Widely varied practice including Schools, Hospitals, Banks, Shops, Housing, Farm Buildings. Salaries according to experience supplemented by Bonus and Pension Schemes. F. J. Lenton & Partners, A/A.R.I.B.A., 16, Broad Street, Stamford, Lincs. 6702

WILLIAM H. ROBBINS, A.R.I.B.A., requires JUNIOR and SENIOR ARCHITECTURAL ASSISTANTS of Final and Intermediate standard for interesting work in expanding office.

Applicants should be experienced in design and construction, quick and able to take responsibility.

Excellent opportunity for advancement, salary range Junior Assistants £750 to £900, and Senior Assistants £1,000 to £1,400 per annum, according to experience.

Five-day week. Apply: 77, Wigmore Street, London, W.1. Telephone: WELbeck 0274/5. 5908

YORKE, ROSENBERG AND MARDALL have some vacancies for experienced STAFF, starting salary according to qualifications and experience, in the range £950—£1,200. Ring AMBassador 4521 for appointment. 6200

ARCHITECTS' ASSISTANTS required, both Intermediate R.I.B.A. and Finals standard, with experience in this country. Good salary offered. Bernard Gold & Partners, 4/6, Savile Row, W.1. Regent 7551. 6170

INTERMEDIATE to Final ASSISTANTS required immediately. Salary according to ability and experience. Theo. H. Birks, 38, Portland Place, London, W.1. LAN. 7236. 9739

CITY OF LEICESTER CITY ARCHITECT'S DEPARTMENT

Architects

Scale D	£1,710-£1,975
Scale A	£1,340-£1,565
APT IV/V	£1,140-£1,480
APT III/IV	£960-£1,310

Quantity Surveyors (R.I.C.S.)

★ Scale A	£1,340-£1,565
Scale APT IV/V	£1,140-£1,480

★ The main duties of this post are cost planning investigations and research.

HOUSING ACCOMMODATION could be provided for married officers in appropriate cases. A five-day week is in operation. Modern office accommodation.

is being expanded to deal with an increased building programme and to carry out research into building methods and costs. The current building programme includes—SCHOOLS, COLLEGES OF FURTHER EDUCATION, CENTRAL SWIMMING BATHS, HOSTELS, COMMUNITY CENTRES, YOUTH CENTRES, SPECIALIST CENTRES FOR HANDICAPPED PERSONS, HOUSING AND CENTRAL AREA RE-DEVELOPMENT SCHEMES including MARKETS, BUS STATIONS, etc. Leicester, as a member of the Consortium of Local Authorities (CLASP), is engaged on research and development work on buildings of advance design.
The office is organised on a group basis to encourage team-work with a large measure of autonomy.

Applications from qualified persons by April 26th stating post applied for, grade and salary required with names of two referees to:

J. H. LLOYD OWEN, B.Arch., F.R.I.B.A., CITY ARCHITECT · CITY ARCHITECT'S OFFICE · 10 LOSEBY LANE · LEICESTER

SOUTH WESTERN REGIONAL HOSPITAL BOARD

The Board requires two Senior Assistant Architects (£1,300–£1,600 p.a.) and three Assistant Architects (£905-£1,310 p.a.) for the expanding hospital building programme in the area. They will be engaged on work under the direction of the Deputy Regional Architect, H. J. Woods, A.R.I.B.A., and one Senior Assistant vacancy will be in the Devon & Cornwall sub-office in Plymouth. Applicants must be registered architects. The posts are superannuable; car mileage allowances will be paid to approved car users and subsistence allowances are also payable. Financial assistance with removal expenses may be given to successful applicants for Senior Assistant Architect posts who are householders and already employed in the National Health Service.

Applications, giving details of age, education, qualifications, present and previous posts held, and the names of three referees, should be sent to the undersigned not later than Monday, 1st May, 1961.

27 Tyndalls Park Road, Bristol, 8.

M. O. CARTER, Secretary.

THE ARCHITECTS DEPARTMENT OF

TOKEN CONSTRUCTION COMPANY LIMITED

requires

ARCHITECTURAL ASSISTANTS

for work on MAJOR DEVELOPMENT PROJECTS throughout British Isles.

Applicants should be of Intermediate Standard or have equivalent experience and should be quick neat draughtsmen with a knowledge of modern constructional methods and materials.

Salary range £750 to £950. Luncheon facilities. Superannuation Scheme.

Write to the

CHIEF ARCHITECT, TOKEN CONSTRUCTION CO. LTD., 37 Park Street, W.1.

Telephone MAY 9255.

ARCHITECTS' ASSISTANTS required, Final and Intermediate standard, to work on large and interesting projects. Salary £850 to £1,000. Applicants must be good draughtsmen, with sound knowledge of detailing. Please write giving full particulars of experience, age, etc., to: F. W. Beech & E. Curnow Cooke, F./L.R.I.B.A., 15, Dix's Field, Exeter. 6945

CHALLEN AND FLOYD require an ASSISTANT of Intermediate to Final standard with a minimum of five years' experience. Work will be interesting, varied and responsible. Salary according to age and experience. Luncheon vouchers provided. Apply to 7, Cromwell Road, London, S.W.7. KENsington 8334/8549. 6491

PLAYNE & LACEY require experienced and enthusiastic ARCHITECTURAL ASSISTANTS. Salary range £900—£1,050. Write 19, Queen Anne's Gate, Westminster, S.W.1, or ring WHI 2552 for interview. 6260

JOBS with scope and commensurate salaries offered to worthwhile ARCHITECTS, ASSISTANTS and POST-GRADUATES of ability, in expanding but personal practice of Armstrong and MacManus. Letters marked confidential to 28, Gloucester Place, W.1, or telephone WELbeck 2273 for appointment. 6792

RUSSELL DIPLOCK ASSOCIATES require 3rd, 4th or 5th year evening STUDENTS and Intermediate standard staff for their London office. The work is extremely varied and interesting and carried out in a very congenial atmosphere. Salary by arrangement, telephone TAT 0771 for appointment. 6793

ARCHITECTS. R.I.B.A. Final and Intermediate ASSISTANTS required to take responsible posts in expanding practice in York with work on Hospitals, Education, Railway and Commercial buildings. Salary by agreement. Pension scheme available. Box 6797.

ARCHITECTS AND ASSISTANTS OF FINAL AND INTERMEDIATE STANDARD REQUIRED FOR IMMEDIATE EMPLOYMENT IN LONDON AND HEMEL HEMPSTEAD OFFICES OF MAURICE BEBB. CURRENT PROJECTS INCLUDE OFFICE AND COMMERCIAL BUILDINGS, NUCLEAR POWER STATIONS, HOSPITALS AND BOWLING ALLEYS.
INDUCEMENTS INCLUDE:
5-DAY WEEK, CANTEEN OR L.V.'s, BONUS AND PENSION SCHEMES.
HOLIDAY ARRANGEMENTS RESPECTED AND COMMENCING SALARIES UP TO £1,500 ARE OFFERED.
REPLY TO:
M. H. J. BEBB,
1, ST. ALBANS ROAD,
HEMEL HEMPSTEAD, HERTS. 6934

ARCHITECTURAL ASSISTANT at Intermediate Standard required for West End Branch of Provincial Architects. Interesting and varied work. Five-day week, Luncheon Vouchers. Write full particulars of age, experience and salary required to Box 6925.

QUALIFIED ARCHITECTURAL ASSISTANT required immediately in Home Counties office. Considerable scope for work on industrial, commercial and housing schemes. Five-day week. Write full particulars of age, experience and salary required to Box 6926.

ARCHITECTURAL ASSISTANT/PLANNER. Estate developers in Buckinghamshire require an Architectural Assistant capable of preparing designs and details from given information, carrying out and plotting surveys, and negotiating with local and planning authorities from commencement to approval. This position offers variety and interest for a man of initiative who will be required, after a period, to build up his own department, giving also the chance of expanding his experience in this field. Previous experience of planning matters an advantage, but not essential as guidance will be given. Please reply giving brief particulars, personal and professional. Salary by arrangement. Box 6927.

CHARLES PIKE & PARTNERS REQUIRE ASSISTANTS FOR A VARIETY OF JOBS INCLUDING TECHNICAL COLLEGES—SCHOOLS, ALL TYPES—TEACHERS TRAINING COLLEGES—HALLS OF RESIDENCE, ETC. WRITE DETAILS TO 14 LINCOLN'S INN FIELDS, W.C.2 (OFF KINGSWAY) OR PHONE HOL. 3532 FOR APPOINTMENT. 6912

HIGHLY qualified ASSISTANT required to take charge of branch office at Wilmslow, Cheshire, in connection with interesting work in the North of England. Salary £1,500 a year, plus bonus to be agreed. Box 6919.

COMPETENT ASSISTANTS required—large industrial buildings—London and Home Counties. Salary and bonus according to experience and ability, five-day week, excellent opportunities. Howard Kelly and Partners Chartered Architects, No. 11 Duke Street, W.1. WELbeck 3995. 6923

WELL-KNOWN firm of City Architects with wide practice covering the whole country and Branch Offices in three of the Provinces, require JUNIOR ASSISTANTS. Five-day week. Good salaries. Luncheon vouchers. Box 6835.

EXPERIENCED ASSISTANTS required for good class work of all types. Applicants should be capable of managing contracts from sketch plan to completion. Salary by arrangement. Telephone WELbeck 8863 for appointment. 6828

£1,300 PER YEAR to keen and qualified SENIOR, with good all-round experience for interesting work in varied practice; London and Home Counties. Pension scheme for suitable man after two years considered. Stewart, Hendry & Smith, F.F.R.I.B.A., 90, Fenchurch Street, London, E.C.3. (Tel.: Royal 6216.) 6834

JOHN VOELCKER requires school-trained, recently qualified ASSISTANT ARCHITECTS. Write Staplehurst, Nr. Tonbridge, Kent, or phone Staplehurst 248. 6822

BEXLEY/KENT. Experienced ARCHITECTURAL ASSISTANT and experienced LAND AND BUILDING SURVEYOR required in busy office. Salaries according to ability and experience. Pension Scheme. Apply in writing to L. F. Halton, L.R.I.B.A., Architectural Department, Prall & Prall, Surveyors, 57, High Street, Bexley, Kent. 6838

EXPERIENCED ASSISTANT required in old established office. General practice. Apply stating experience, salary etc. Apply: Manning & Steel, F.R.I.B.A., Architects & Surveyors, George Street West, Luton, Beds. 6876

SENIOR ARCHITECTURAL ASSISTANTS. Large Office has a limited number of vacancies for Senior Architectural Assistants, salary range £900—£1,500, to undertake work of a varied and interesting character.
Reply with particulars of experience to Box 6875.

MOIR AND BATEMAN in association with T. Keith McCann require ARCHITECTURAL ASSISTANTS for their Manchester and Rochdale offices. Applicants must be of Intermediate qualification. Write to 180 Oxford Road, Manchester. 13. 6855

SENIOR ARCHITECTURAL ASSISTANT required in Bloomsbury office for extensive and varied hospital work. Five-day week; good salary and prospects for suitable applicant. Written application please, giving experience, qualifications and age etc., to Box 6857.

IF you are of Intermediate standard, or above, have initiative and common sense, want to be allowed a greater measure of freedom in expression; a chance to take charge of projects from inception to completion and to be part of a team in an expanding practice with salary commensurate with ability, then apply to: Piper, Whalley & Partners, 1, Rawstorn Road, Colchester. 6856

BRISTOL Architects require an ASSISTANT qualifying this year (to start in July) to work with them in a Practice, non pyramid, offering scope to take direct responsibility for buildings and where initiative counts more than experience. Please write giving details and salary required to Whicheloe & Macfarlane, 14, Great George Street, Bristol 1. 6878

SENIOR ASSISTANT ARCHITECT required to take charge of interesting projects in the Staff Architect's Department of a large Multiple Organisation, with Head Office in Leeds. Permanent position with prospects. Good salary. Apply, with brief particulars, to D. Greenwood, B.Arch., A.R.I.B.A., Staff Architect, John Collier Tailoring Organisation, Architects Department, Cardigan Crescent, Leeds, 4. 6889

ASSISTANT ARCHITECTS required, recently qualified or Intermediate standard, to join design teams working on a variety of interesting projects throughout the country. Work involves design and site supervision. Good salary. Apply, with brief particulars, to D. Greenwood, B.Arch., A.R.I.B.A., Staff Architect, John Collier Tailoring Organisation, Architects Department, Cardigan Crescent, Leeds, 4. 6900

JULIAN KEABLE & PARTNERS require an ASSISTANT to carry out responsible design work. Salary £900 to £1,200. 54, Great Marlborough Street, W.1. Regent 0961. 6901

ASSISTANTS of various grades required in Architects Office. Salary according to experience. Write Nicholas & Dixon-Spain & Partners, 19 Hanover Square, W.1. 6909

ARCHITECTS. Experienced ASSISTANTS required for work on interesting major schemes, able to take initiative and responsibility. Bonus, Pension and Life Assurance Schemes. Salary according to experience and ability. Full particulars to Hadfield, Cawkwell & Davidson, 17, Broomgrove Road, Sheffield 10. 6911

REQUIRED immediately for interesting work, including schools, technical college, housing and industrial schemes, ARCHITECTURAL ASSISTANTS of not less than Intermediate standard with office experience, who will be responsible directly to partners; also JUNIOR ASSISTANTS with some drawing office experience. Application stating age, experience and salary required to: Atkinson, Smith & Haywood, F.F., A.R.I.B.A., 4, Raymond Buildings, Gray's Inn, London, W.C.1. 6777

ARCHITECTURAL ASSISTANT required, R.I.B.A. Intermediate standard, with some office experience. Varied and interesting work. Five-day week. L.Vs. Good salary for keen and competent person. William Crabtree, F.R.I.B.A., 8 Robert Adam Street, W.1 (WELbeck 9909). 6776

ASSISTANTS required to work in small but active practice with excellent conditions on interesting work both at home and overseas. Good salaries, holidays honoured. Reply stating experience and salary to Phillip Cranswick, A.R.I.B.A., A.M.T.P.I., 36 Sackville Street, London, W.1. Tel. REGent 7605. 6783

R. D. RUSSELL & PARTNERS have vacancies for several ASSISTANTS, either qualified or Intermediate standard, with some office experience, salary £750 to £1,000, to work on interesting projects including an hotel, multi-storey office building, shops, interior and furniture design. Telephone: CHAncery 3553. 6778

VACANCIES for Senior and Intermediate grades on varied and interesting work, good salary in accordance with experience. Five-day week. Fitzroy Robinson & Partners, CHAncery 2111. Ref. GWJ. 6784

MEDWAY BUILDINGS wish to appoint STAFF ARCHITECT to take charge of new Department dealing with planning and design of prefabricated timber buildings, schools, office blocks, pavilions, etc. Applicants should be experienced qualified Architects capable of both administration and design, and should be experienced and interested in modular timber construction. The success of this new Department will largely depend on the qualities and enthusiasm of the successful candidate. Salary by arrangement. Write giving full details to the Staff Manager, Medway Buildings, Rochester, Kent. 6786

W. S. HATTRELL & PARTNERS, COVENTRY, urgently require ASSISTANTS:
SENIORS commencing £1,000—£1,250
JUNIORS commencing £750—£850
to take part in a varied programme of work including Schools, Office Blocks, Pubs, Flats and Central Redevelopment Schemes.
Write or telephone 1, Queens Road, Coventry (Coventry 26446). 6790

ARCHITECTURAL ASSISTANTS (Intermediate standard) required for the planning and design of modern one- and two-storey timber structures for wide variety of projects. Salary according to experience and ability. Write giving full details to the Staff Manager, Medway Buildings, Rochester, Kent. 6785

FRY, DREW & PARTNERS have vacancies for qualified and experienced ASSISTANTS on very interesting new work in U.K. including residential development and industrial headquarters. Salaries from £1,000 upward for suitable applicants. Apply 63, Gloucester Place, W.1 (WEL 3318). 6789

A SALARY of up to £2,000 per annum, plus various benefits, will be paid to qualified ARCHITECT with adequate Hospital experience (North Midlands). Box 6804.

SEELY AND PAGET require a Qualified ASSISTANT with at least two years' office experience to work in their City Office. Successful candidate will be placed on appropriate scale of salary commensurate with qualifications and experience. Please telephone MET 8511 or write 41, Cloth Fair, E.C.1. 6590

SLOUGH ESTATES LTD. require an ARCHITECTURAL ASSISTANT with at least five years experience, chiefly for industrial work. Five day week, good working conditions, luncheon vouchers, pension scheme, etc. Please apply stating age, experience and salary to The Chief Architect, Slough Estates Ltd., Bedford Avenue, Trading Estate, Slough, Bucks. 6501

ROBERT MATTHEW & JOHNSON-MARSHALL have vacancies in their London office for ARCHITECTS at all levels of experience for a variety of interesting jobs. Apply to Robert Matthew & Johnson-Marshall, 24 Park Square East, N.W.1. 6547

SIR JOHN BURNET, TAIT & PARTNERS have vacancies for ARCHITECTURAL ASSISTANTS of all grades. Salaries from £1,200 p.a. Luncheon vouchers, superannuation and medical schemes, non-contributory. Apply 10 Bedford Square, W.C.1. 6126

BASIL SPENCE & PARTNERS require qualified and experienced ARCHITECTS to fill positions of responsibility on a major building programme. Write to 1, Fitzroy Square, W.1, stating experience and salary required. 9824

ARCHITECT'S ASSISTANTS required, Senior and Junior, qualified or otherwise, with practical experience. General private practice. Apply: W. B. Starr, Clifford & Carman, 204, Derby Road, Nottingham. Tel.: 43192 and 43828. 6663

£1,000/£2,000 p.a. will be paid to experienced competent ARCHITECTS by a private practice in the City of London. The work will be primarily on the drawing board on new and interesting projects of magnitude. A high standard of design and detailing ability is required. Please apply in writing to Box 9360.

SENIOR ASSISTANTS required immediately. Salary by arrangement. Theo. H. Birks, 38, Portland Place, London, W.1. LAN 7236. 1486

BOOTH, LEDEBOER AND PINCKHEARD require ASSISTANTS in the salary range £750—£1,250. Apply 17-20, Mason's Yard, Duke Street, St. James's, S.W.1. Tel.: TRAfalgar 1866. 3119

SENIOR AND JUNIOR ASSISTANTS. Only those who prefer a small office and an interesting variety of work on both old and new buildings should apply to: L. H. Bond & R. W. Read, 44, Castlegate, Grantham. 6404

EXPERIENCED ASSISTANTS required for responsible positions in West End office. Salaries £1,000—£1,500. Apply Box 6371.

GEORGE, TREW & DUNN.

Interesting projects include new hospitals, university buildings and multi-storey flats.

Qualified ARCHITECTS are invited to apply to 50, Eastbourne Terrace, W.2. Tel. PAD 6611. 6403

ROBERT MATTHEW & JOHNSON-MARSHALL require ASSISTANTS at all levels to work in their Edinburgh and Dundee Offices on major Hospital, University and Power Station projects. £750—£950 for recently qualified Assistants; £1,100—£1,750 for higher grades. Apply to 13, South Charlotte Street, Edinburgh, 2. 6464

ARCHITECTURAL ASSISTANT required for North Devon Office. Box 6673.

ARCHITECTURAL ASSISTANTS, Intermediate and Final standard, required immediately for a wide variety of work mainly commercial and industrial. Write giving experience and salary required: Howell, Freeman & Batten, Chartered Architects, Reading. 6477

NORTH LONDON. ASSISTANTS required, about R.I.B.A. Intermediate standard. Wide variety of interesting work. Five-day week. Facilities for part-time day study. Apply C. E. Owen Ward, L.R.I.B.A., Midland Bank Chambers, Palmers Green, London, N.13. PAL 1186/7. 6588

F. W. WOOLWORTH & CO. LTD.

KENSINGTON OFFICE—ARCHITECT'S DEPT.

SENIOR and JUNIOR ARCHITECTURAL ASSISTANTS and DRAUGHTSMEN required.

Five-day week, superannuation, dining facilities. Good salary according to experience and qualifications.

Apply giving details of age, experience and salary required, to:—

Staff Architect, 26/40 Kensington High St., London, W.8. 6579

ROFF MARSH, F.R.I.B.A., M.T.P.I., requires qualified and experienced ARCHITECT, also ASSISTANT of Intermediate standard. Interesting large projects including shops, flats, offices and schools; working in an office in pleasant surroundings. Write, stating age, experience and salary required to 125/7, London Road, Chelmsford, Essex. 6618

£900 P.A. ARCHITECTURAL ASSISTANT required up to Intermediate standard for busy London Architect's office. Write giving details of experience to Box 6671.

BIRMINGHAM.—Clifford Tee & Gale, F/F.R.I.B.A., have a vacancy for an experienced SENIOR ASSISTANT and an ASSISTANT of Intermediate standard with some experience for important industrial and commercial projects requiring a high standard of architectural design. Please apply to Mr. R. G. Cox, F.R.I.B.A., 43, Frederick Road, Birmingham, 15 (telephone EDGbaston 3676) for details of these positions and amenities provided. Holiday commitments will be honoured. 6762

E. NORMAN-BAILEY & PARTNERS, L/A.R.I.B.A., require ASSISTANT of Intermediate to Final stage with office experience. Interesting contemporary work. Five-day week. 'Phone Central 5777 or write to Canada House, 3, Chepstow Street, Manchester 1. 6768

NORTH & PARTNERS, Chartered Architects, have vacancies for two ARCHITECTURAL ASSISTANTS, for interesting works in various parts of the country. Opportunities for advancement in accordance with ability. Please state salary required and general experience. Broadway, Maidenhead. 6751

ASSISTANT ARCHITECTS required by Kenneth Lindy & Partners. City Office. Good salaries, luncheon vouchers, pleasant offices and varied practice. Every opportunity for initiative and responsibility. 24, St. Mary Axe, E.C.3, or telephone Avenue 6153. 6760

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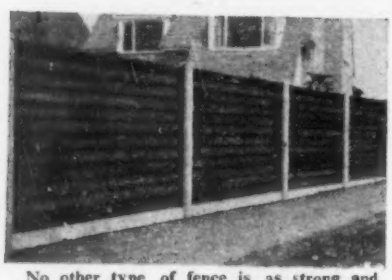
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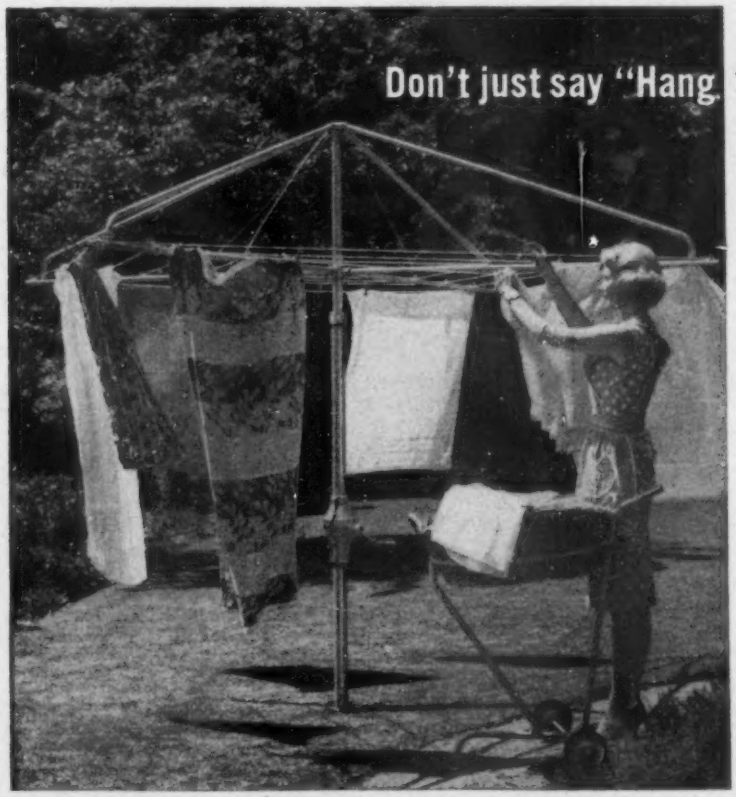
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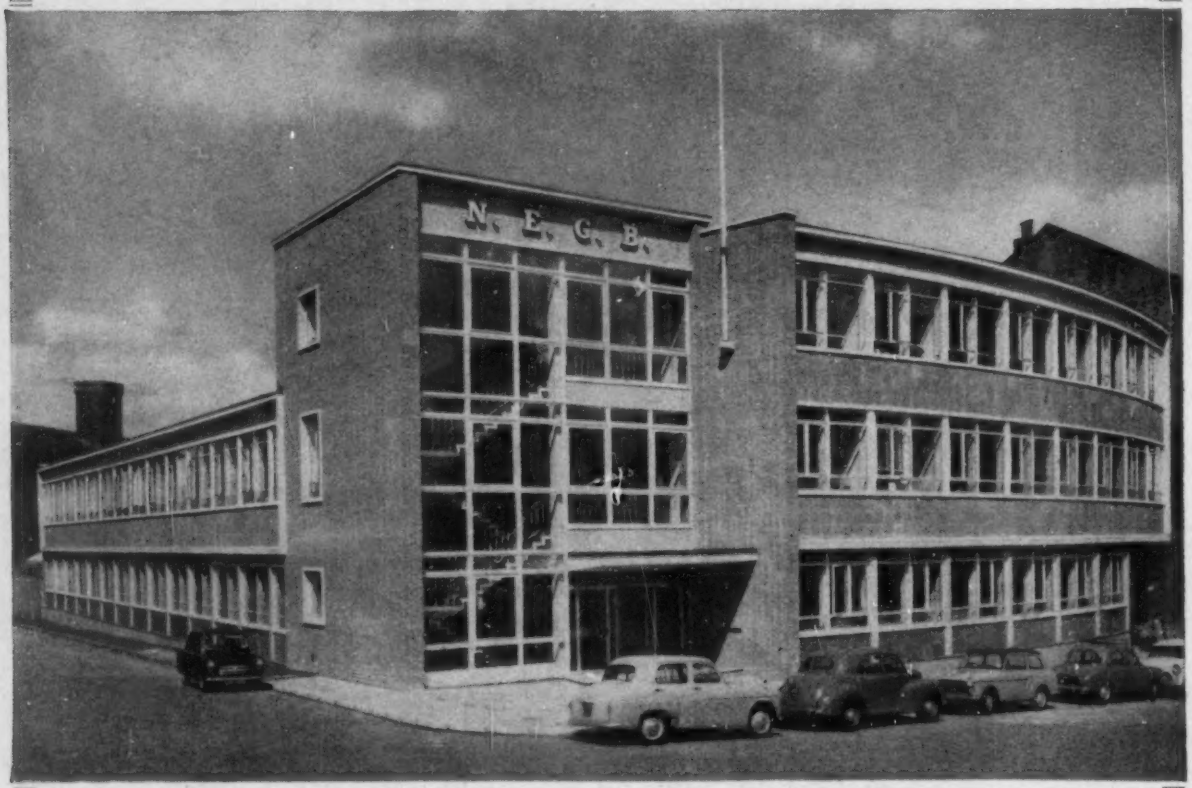
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DESIGNS IN CONCRETE 11



NORTH EASTERN GAS BOARD

The North Eastern Gas Board decided to concentrate their office accommodation. Part of this was previously in the area designated for re-development.
The New Office Block abuts up against the existing premises. It stands on a corner, and therefore, fronts on to two streets. The whole of the Block has a Pile foundation.
Although designed for three storeys, only two storeys are built on one elevation, and provision has been made, by means of stub columns, for this to be extended in a vertical direction, when the additional accommodation is required.
Under part of the two-storey structure, a basement has been formed for the storage of Refrigerators and Cookers.
The main entrance has a distinctive stair-case, and leading off, are the two Administrative wings. The whole of the building is an insitu Reinforced Concrete frame.
The elevation consists of facing brick-work and Westmorland slate.
Parts of the concrete frame to the main entrance have a mosaic finish.
The first floor, and subsequent floors of the three-storey block cantilever out at first floor level.

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